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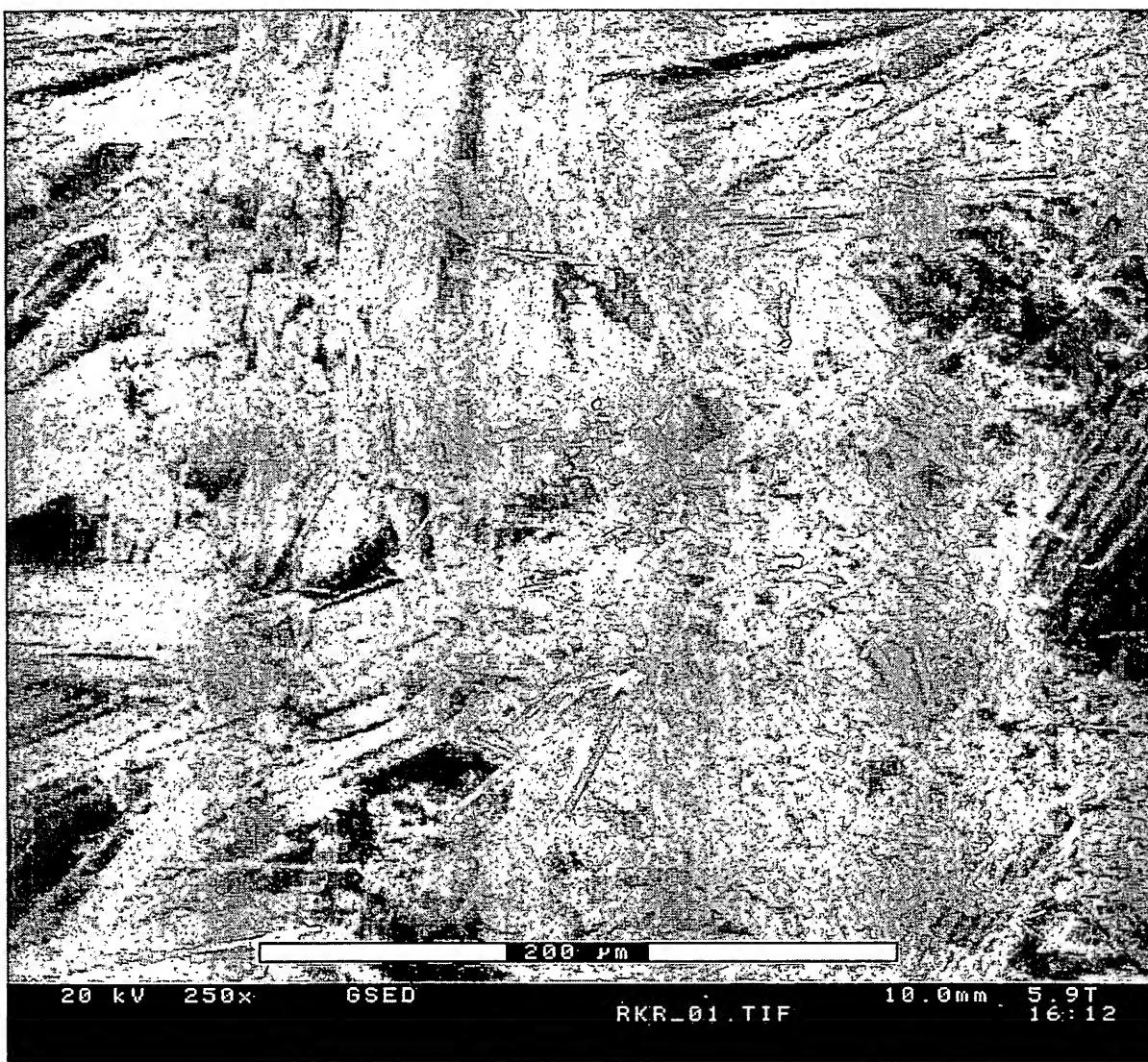
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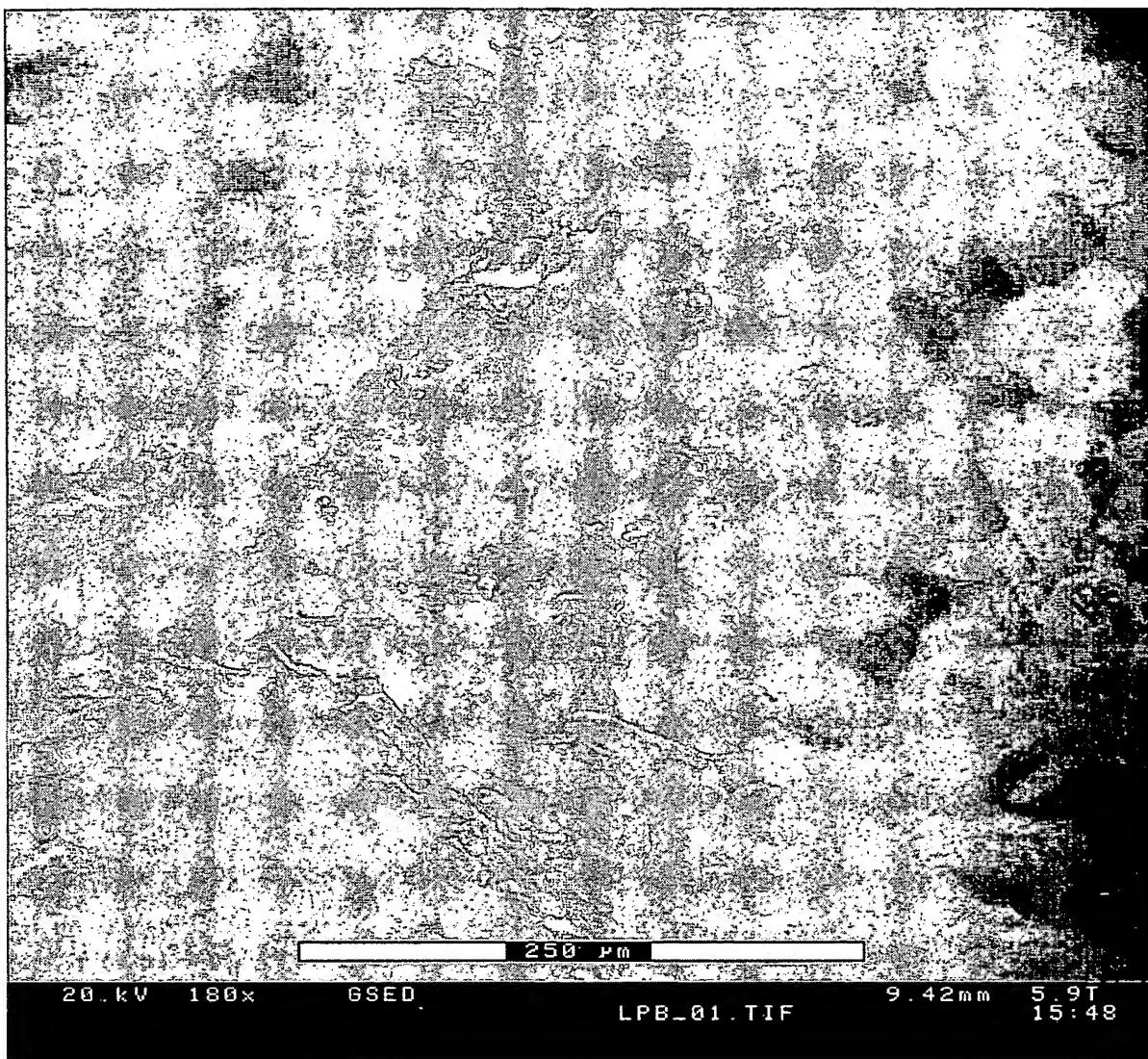
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FIG. 1



PRIOR ART

FIG. 2



PRIOR ART

FIG. 3

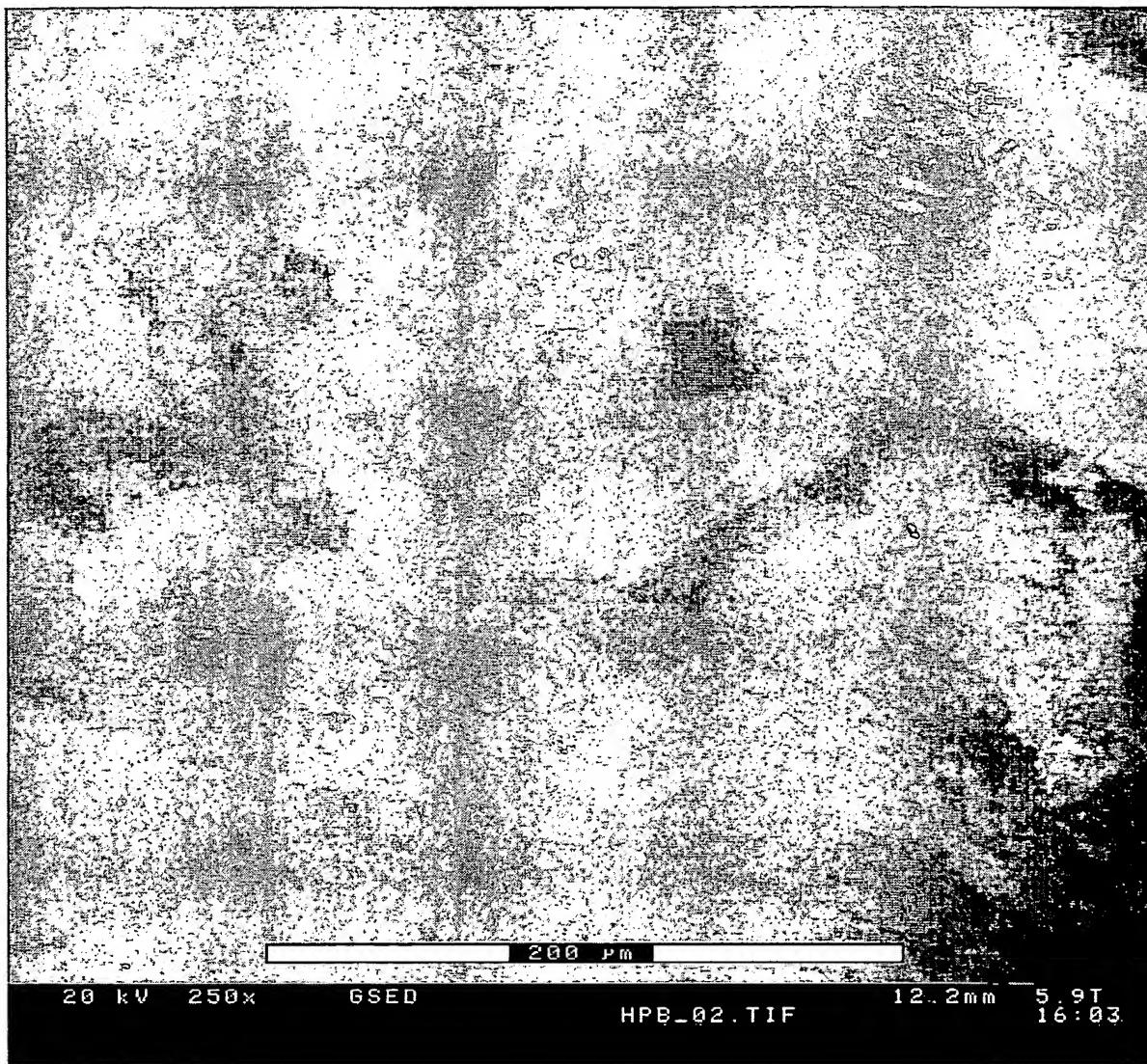


FIG. 4 Quality of Briquettes Schematic

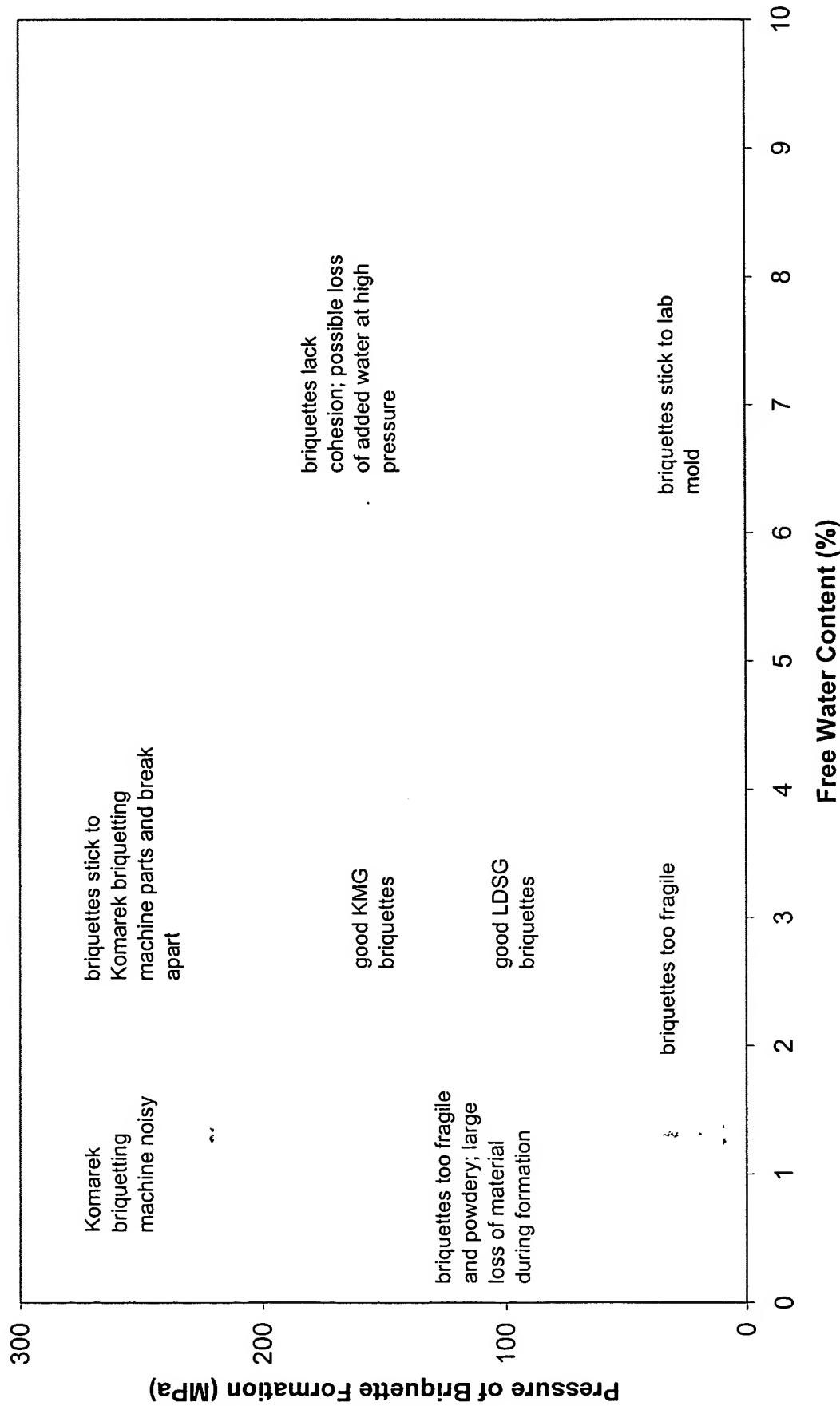


FIG. 5 Rate of Calcination, Briquette versus Block

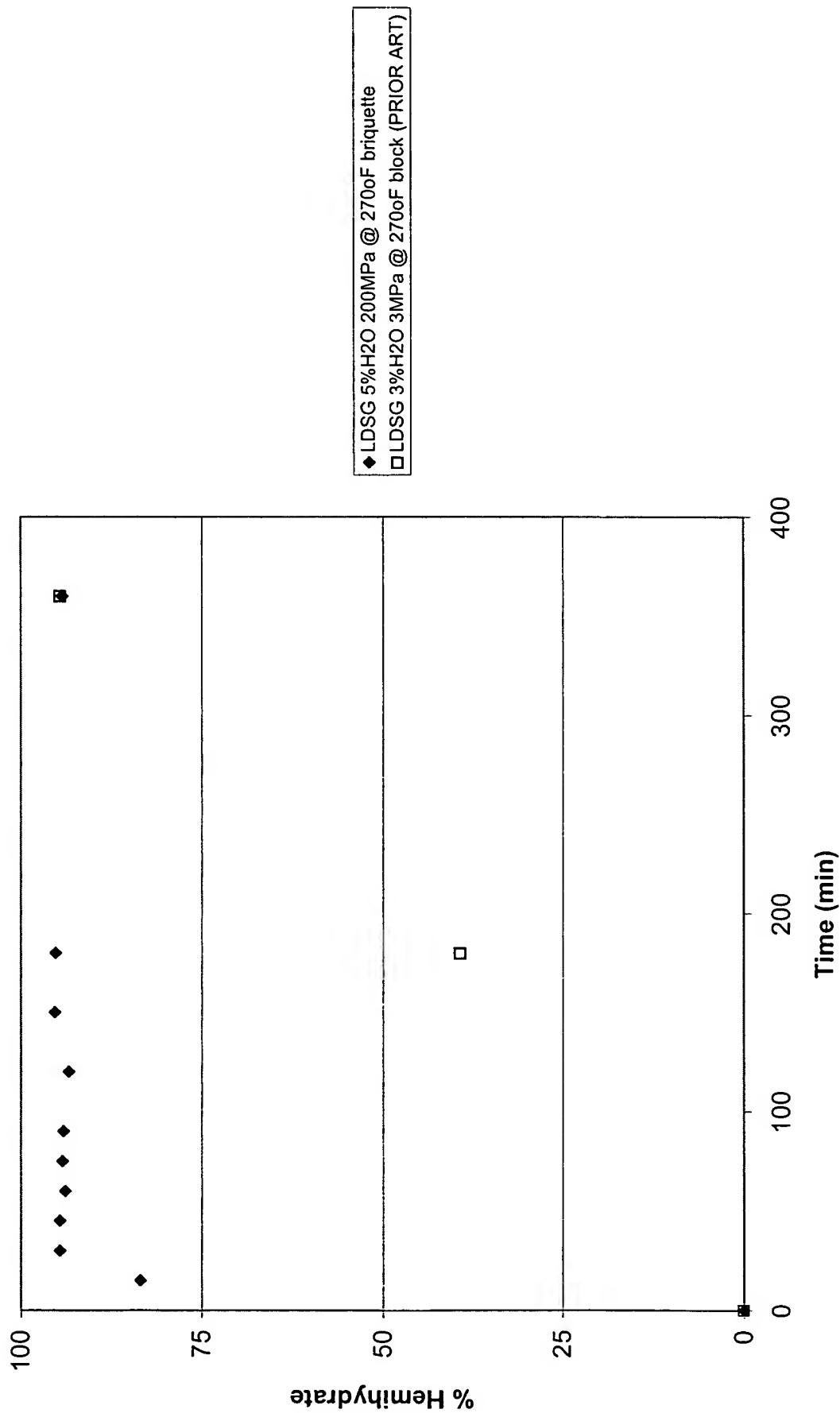


FIG. 6 Rate of Calcination of LDSCG 3% H_2O 3 MPa block @ 270°F with Location Sampling (PRIOR ART)

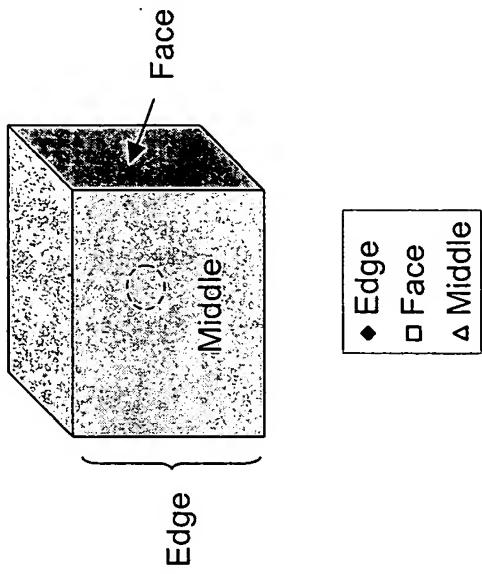
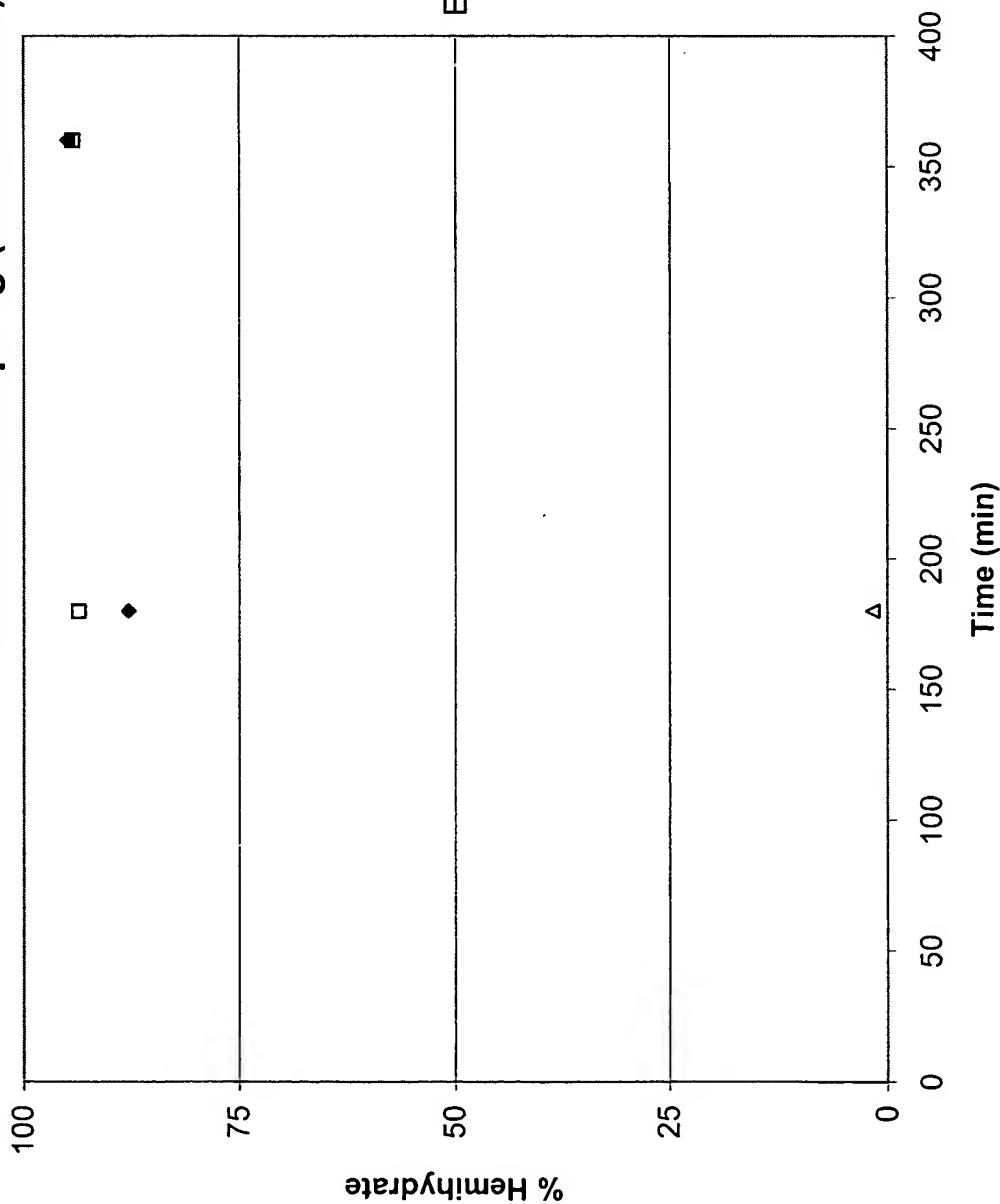


FIG. 7A

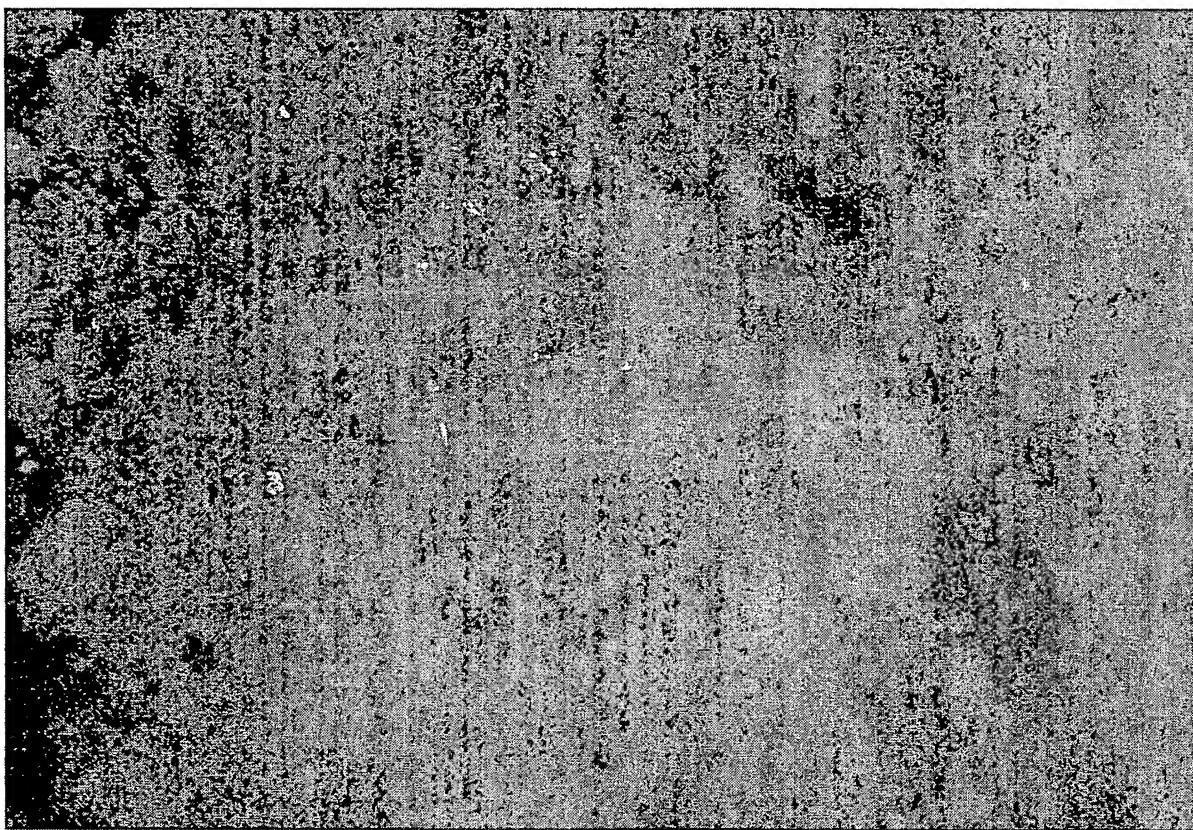


FIG. 7B

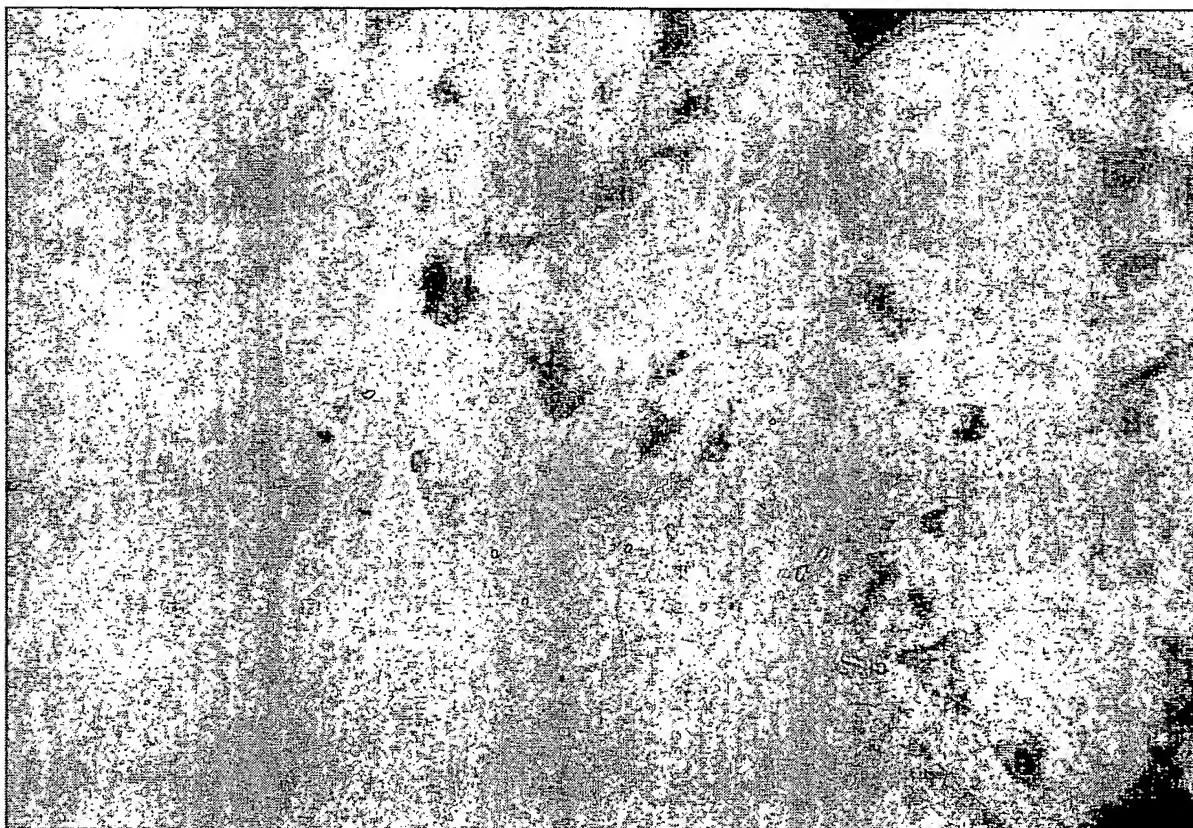


FIG. 7C

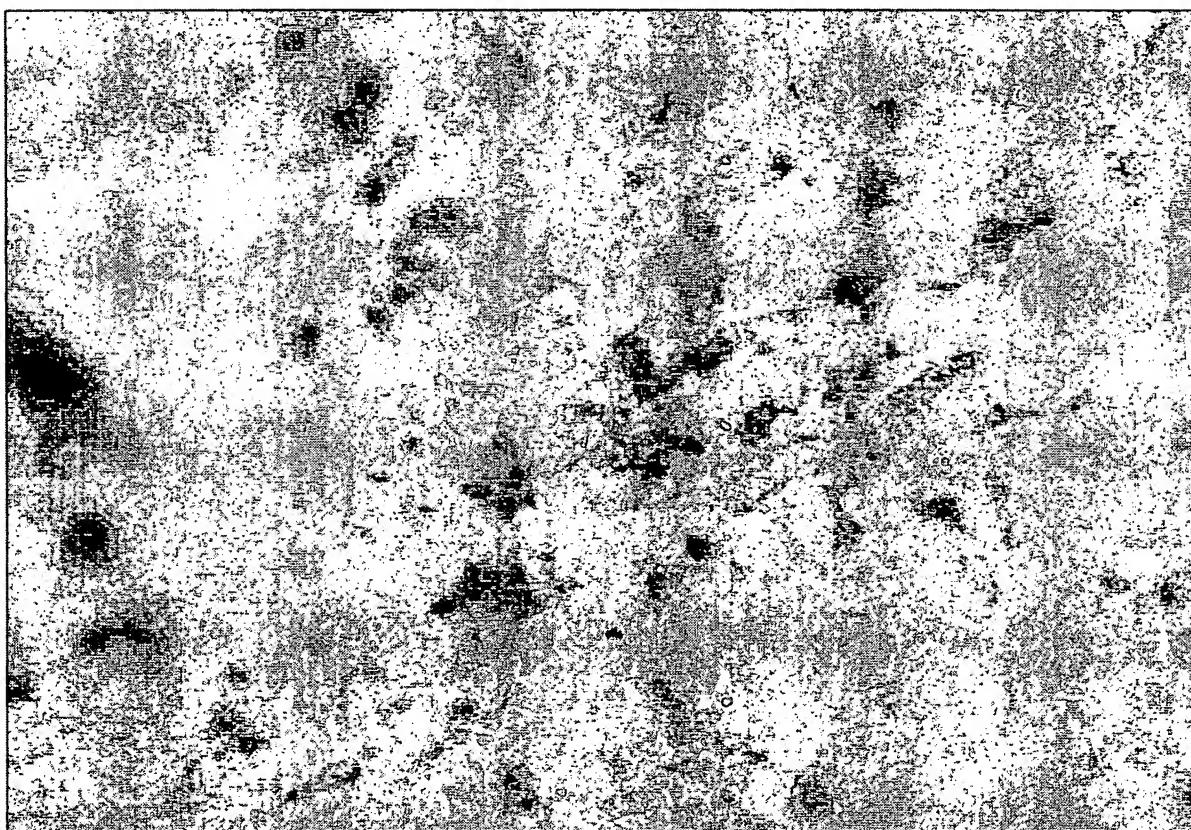


FIG. 7D

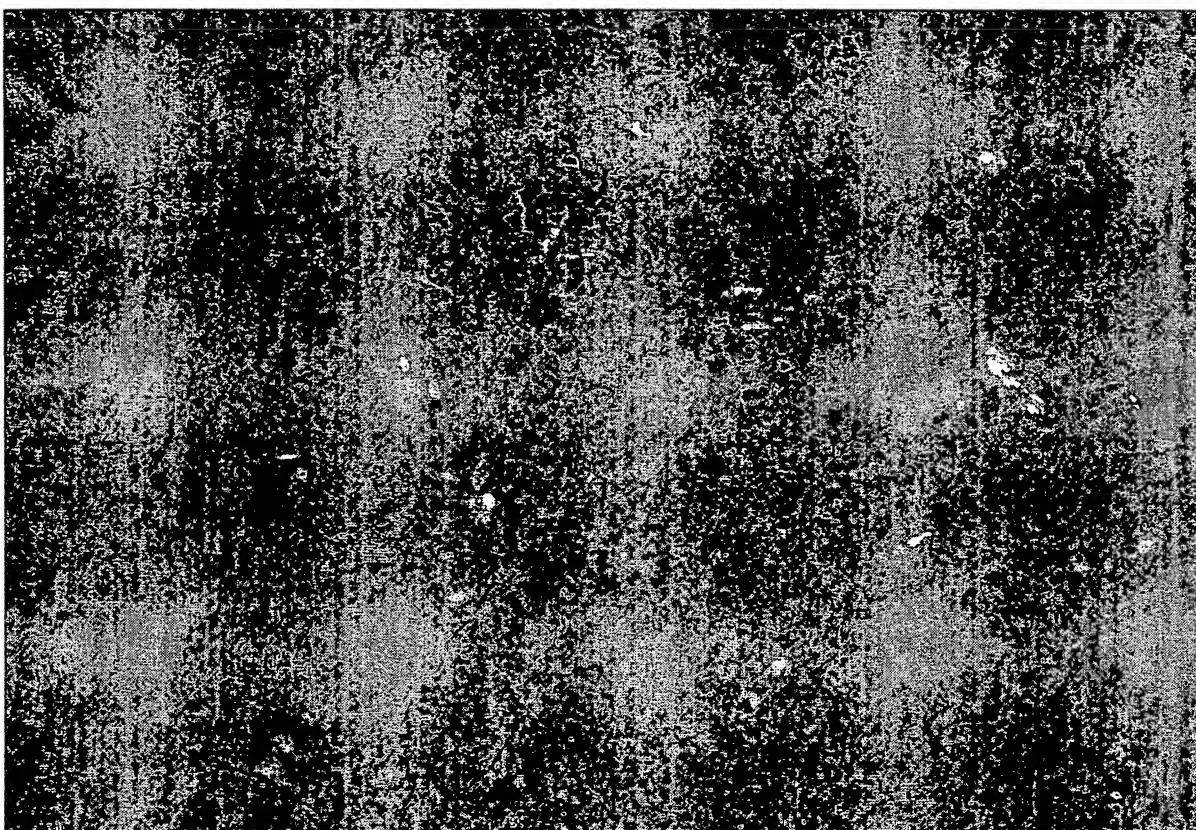
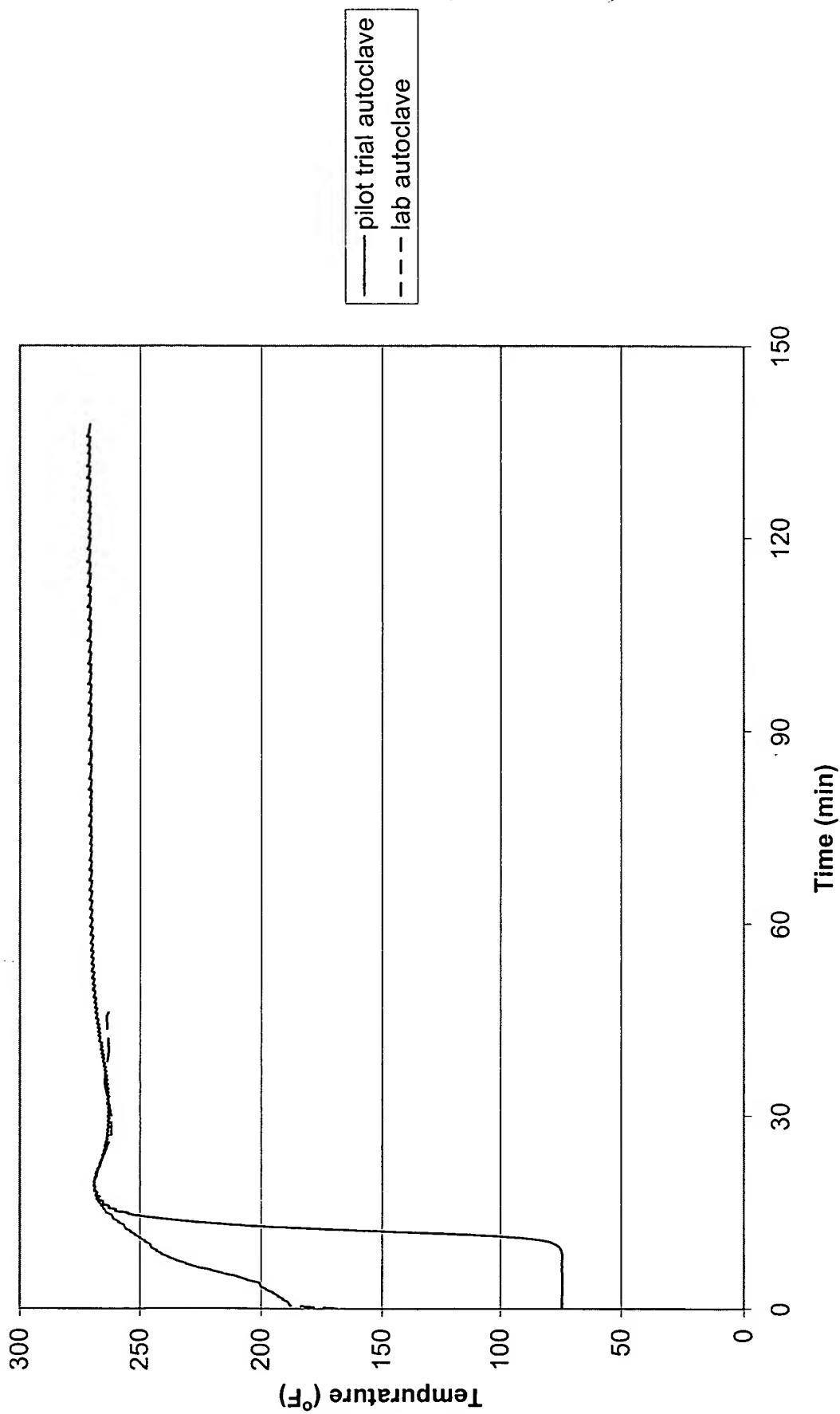


FIG. 8 Autoclave Temperature; Pilot Trial versus Lab Calcination



KMp3
LDSC

FIG. 9 Rate of Calcination; Gypsum Type 5%H₂O 200MPa @ 270°F

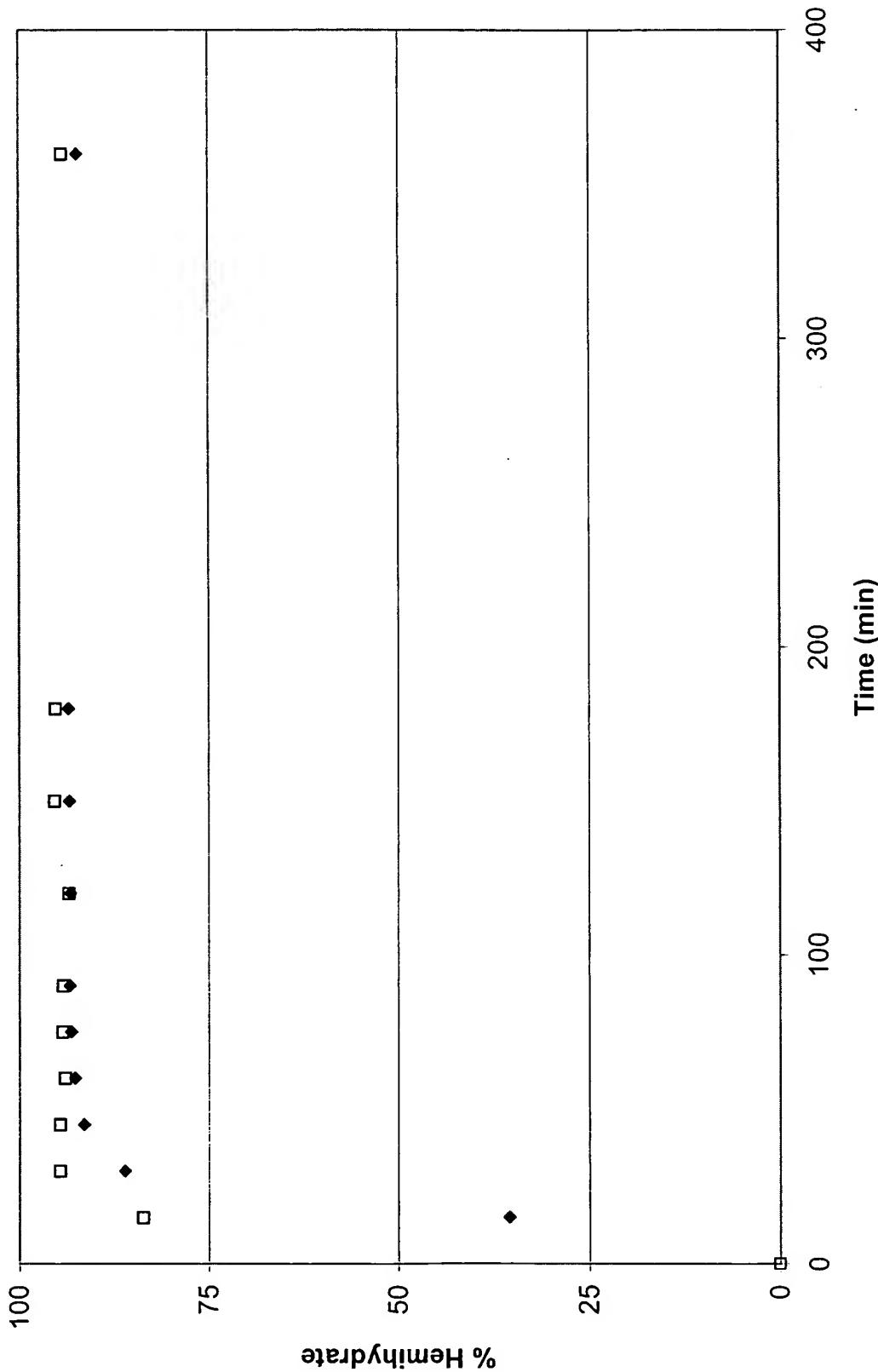


FIG. 10 Rate of Calcination; Effect of Pressure, KMp3 5% H₂O @ 270°C
30 min

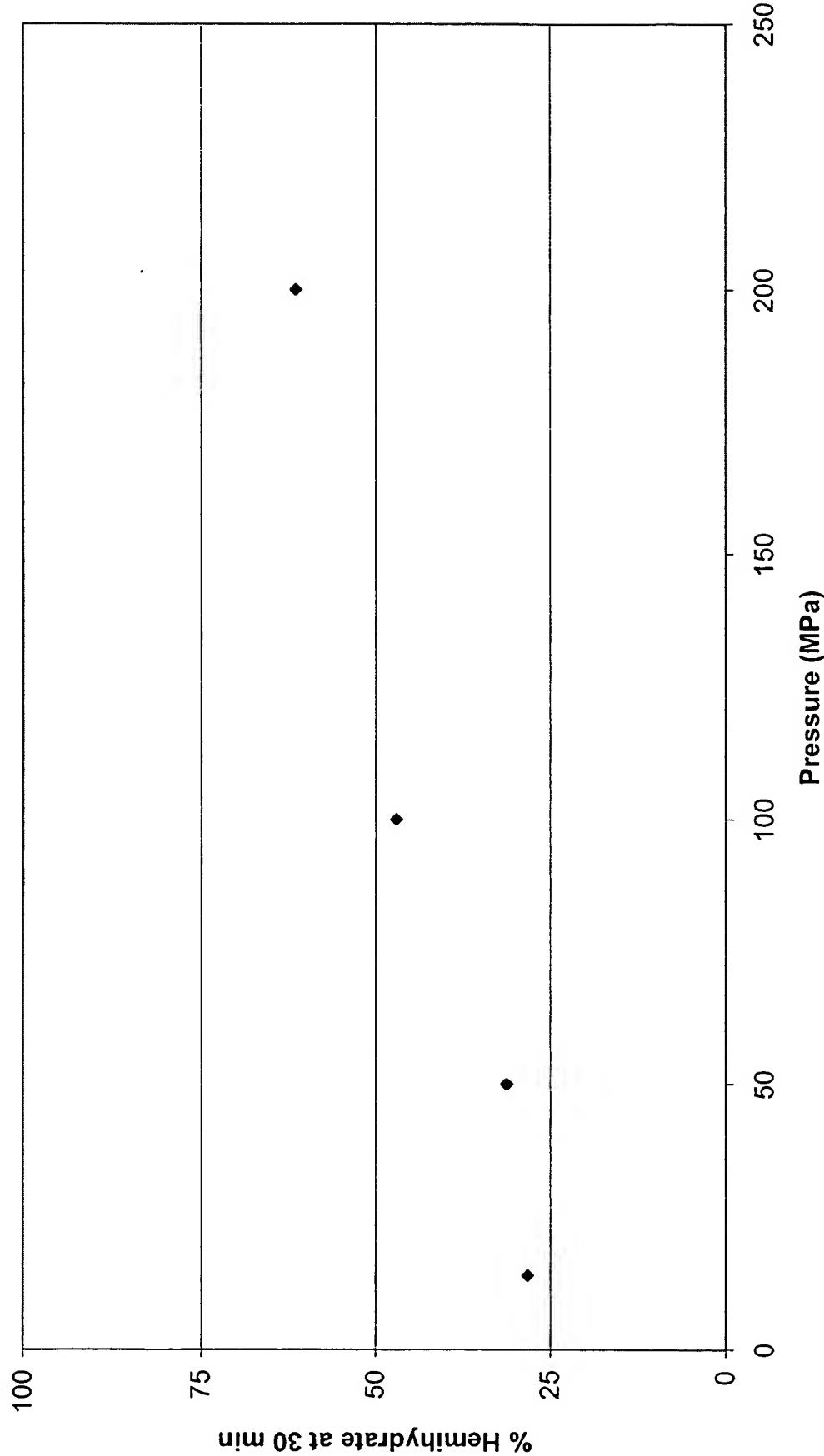


FIG. 11 Hammer Mill Grinding Apparatus

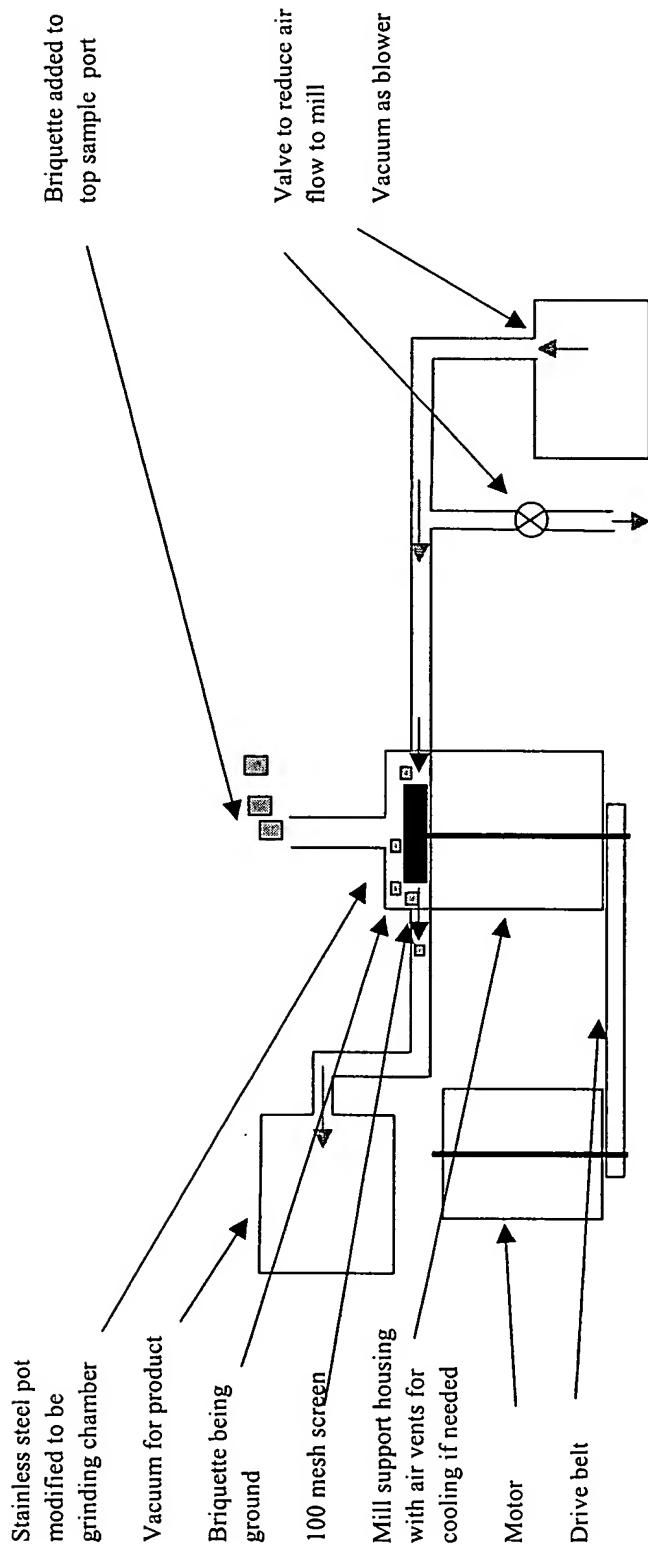


FIG. 12 Water Demand; Type of Gypsum 270°F 150 min

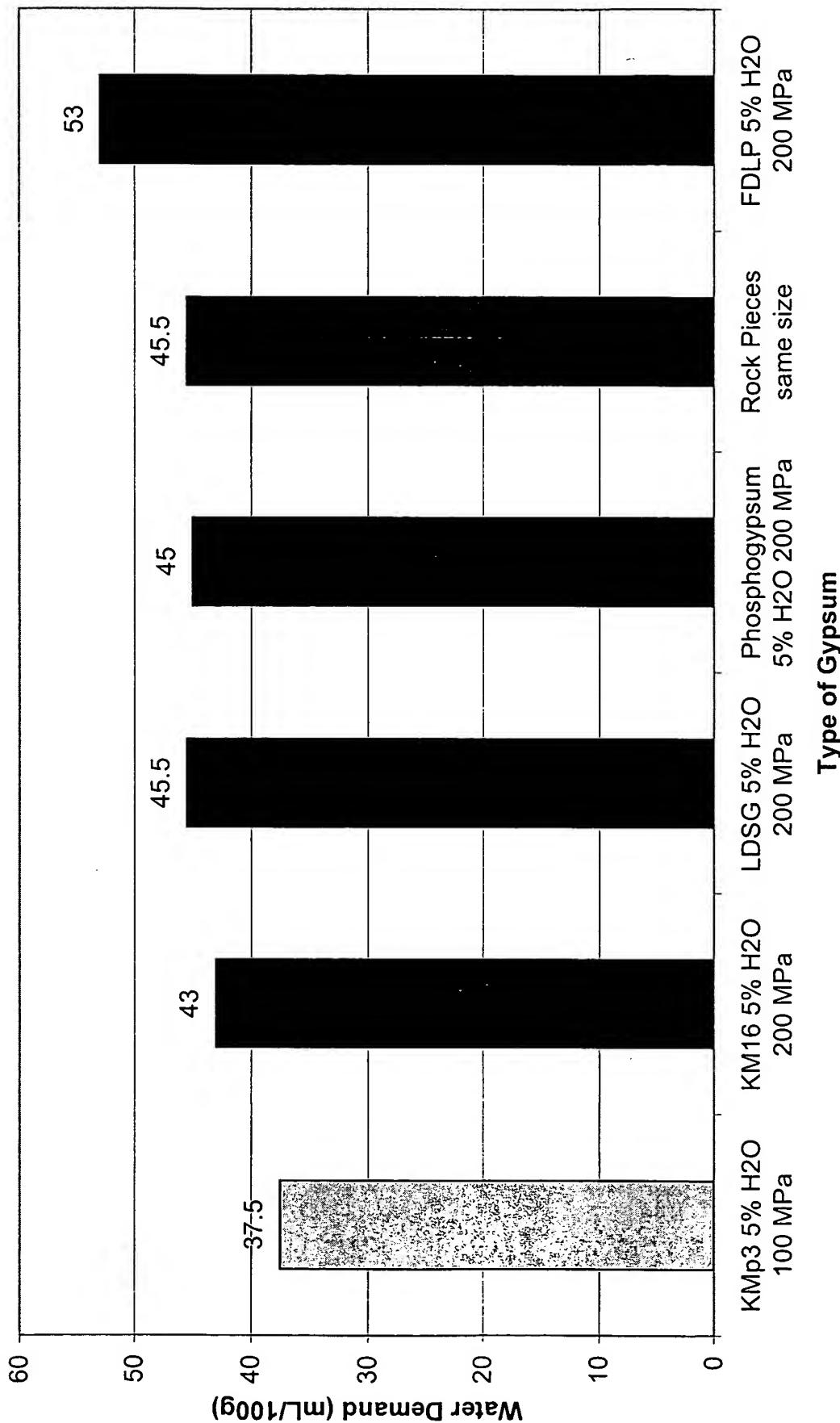


FIG. 13 Water Demand; Effects of Pressure 5% H₂O 270°F

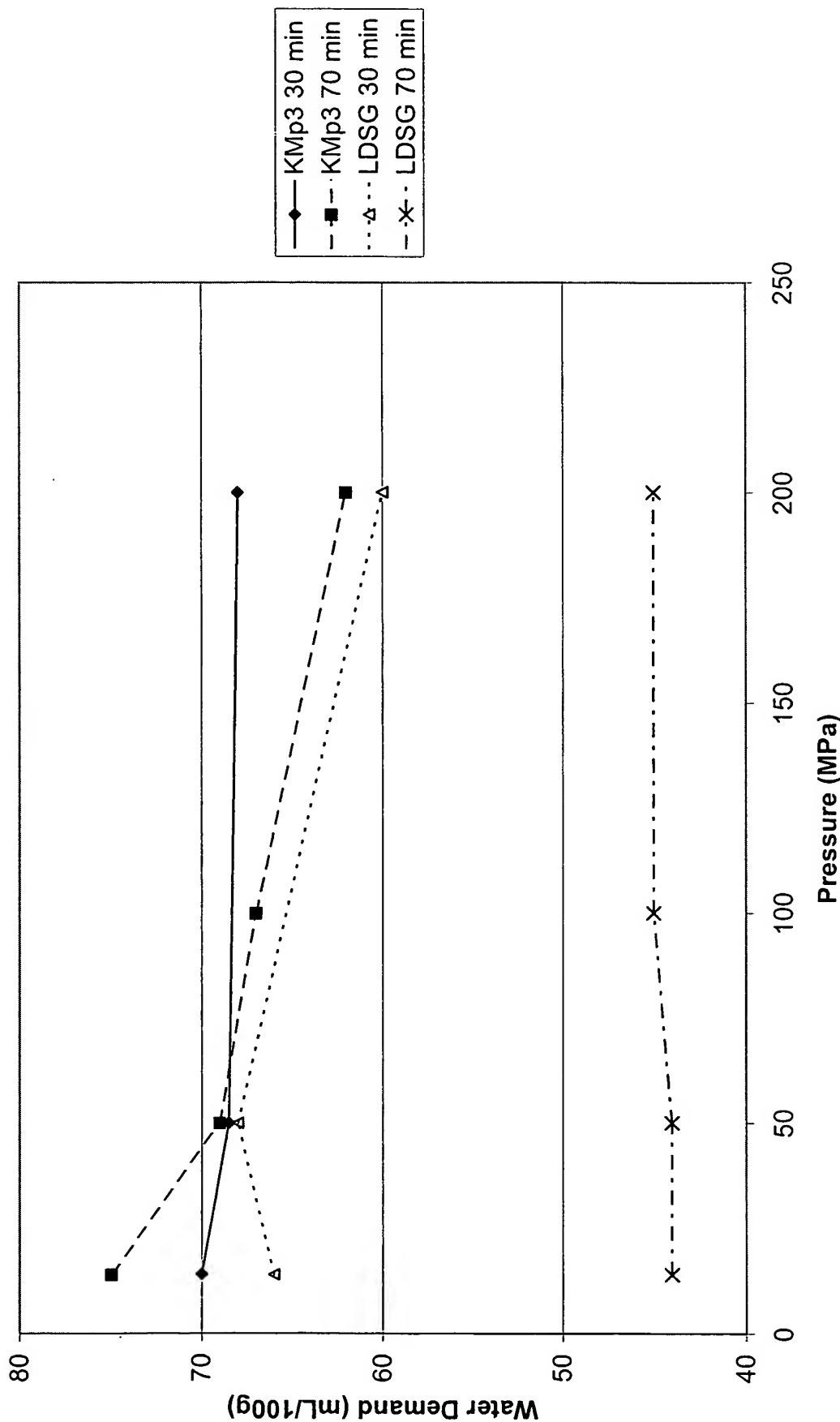


FIG. 14A

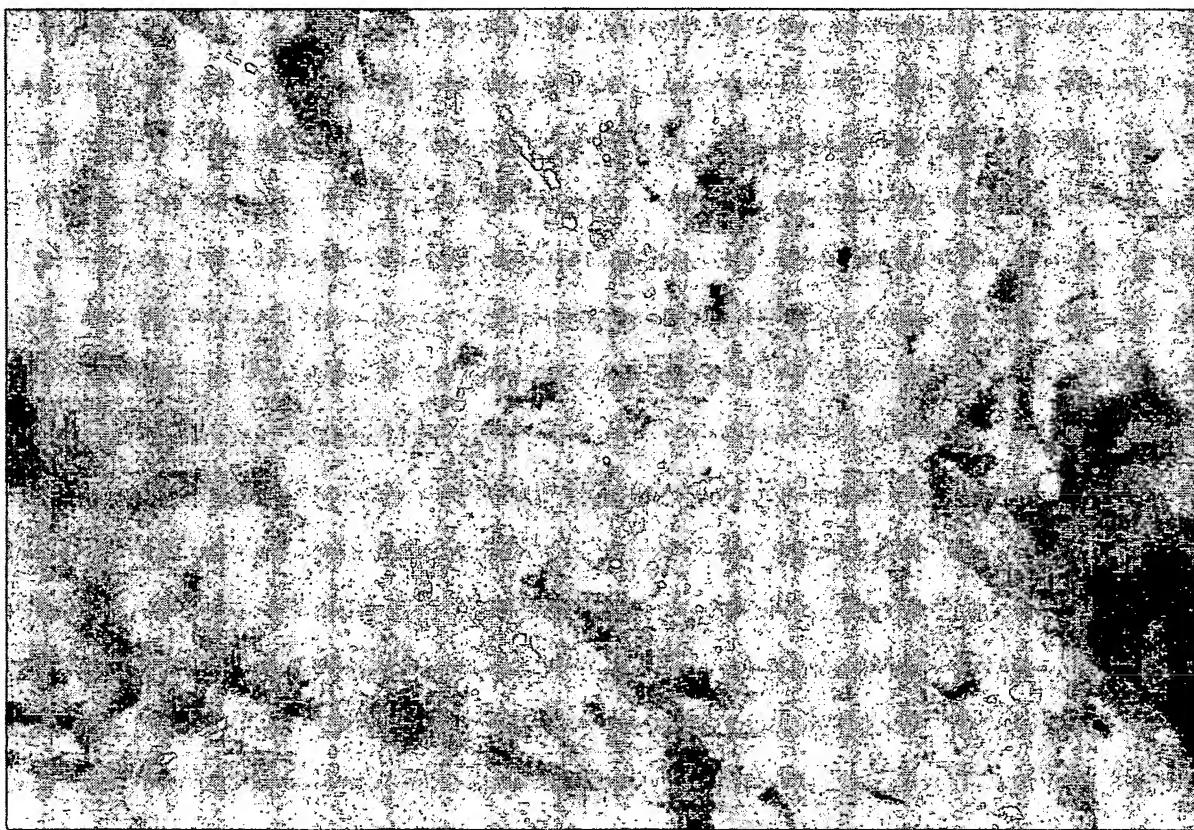


FIG. 14B

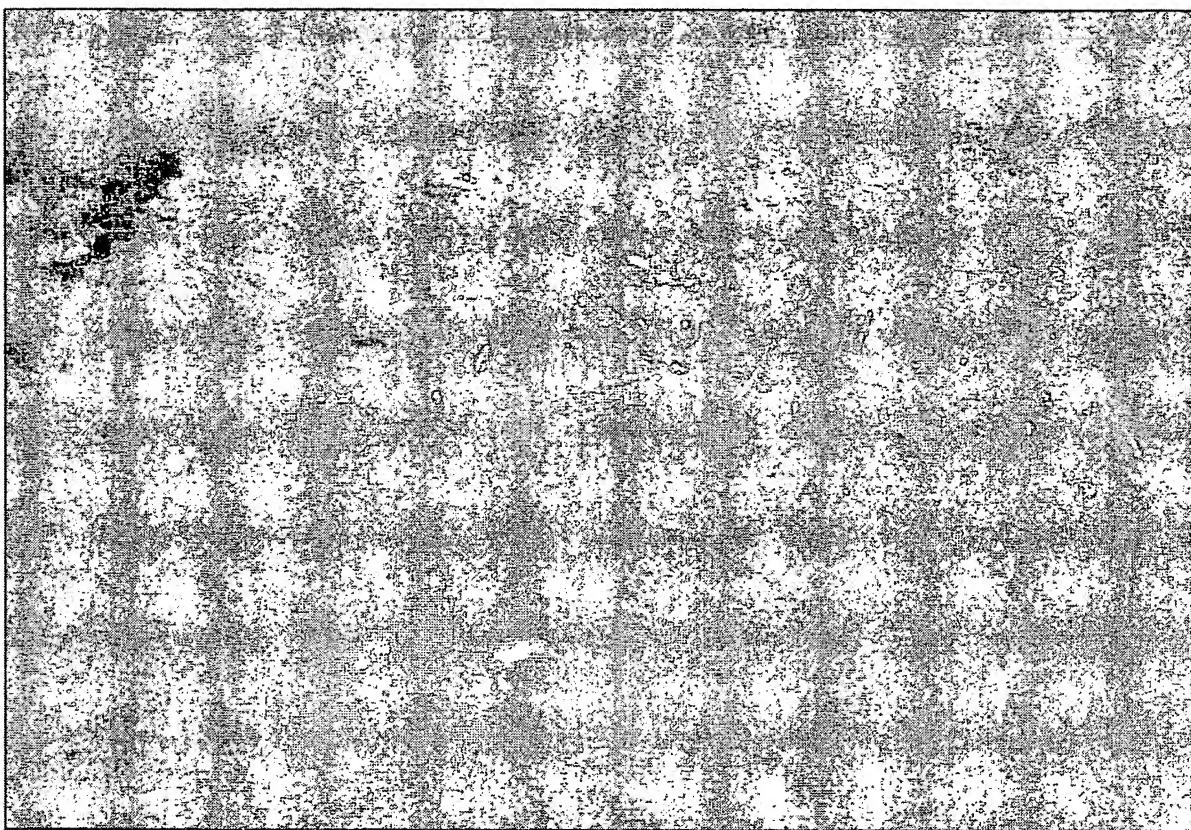


FIG. 14C



FIG. 14D

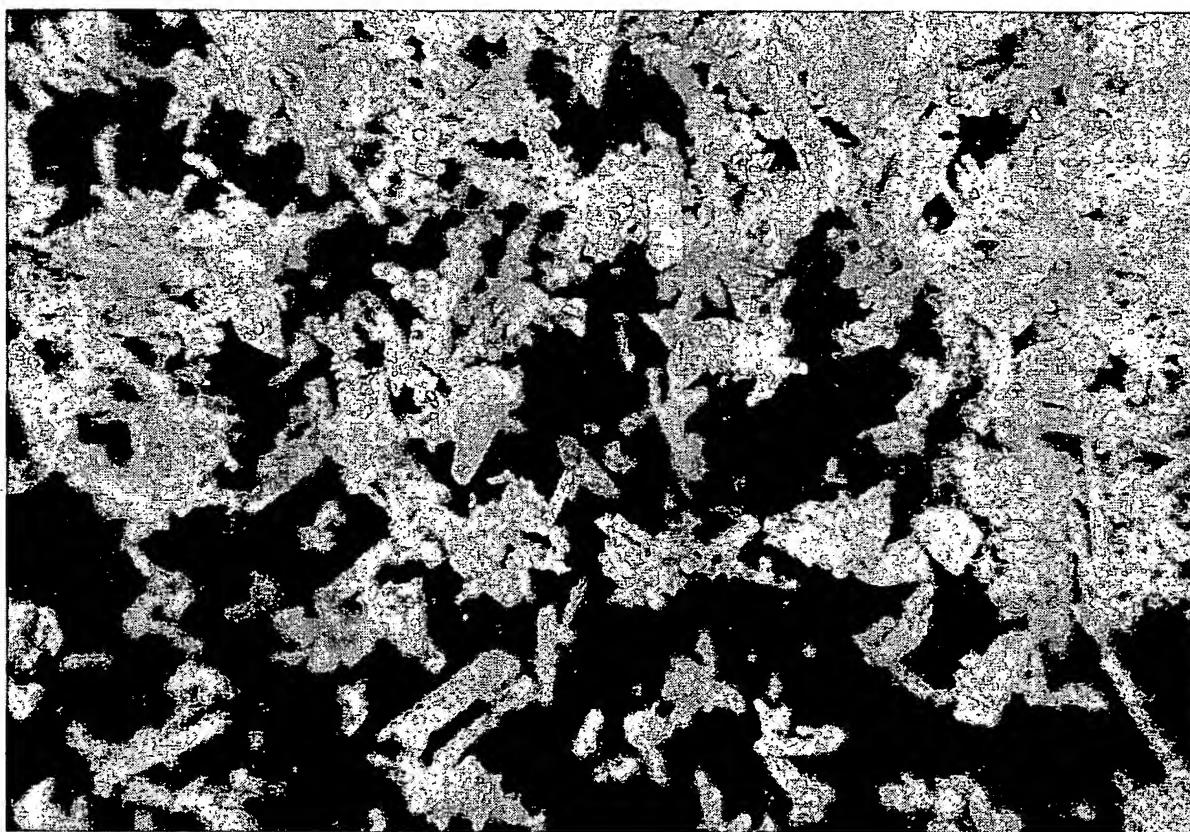


FIG. 14E

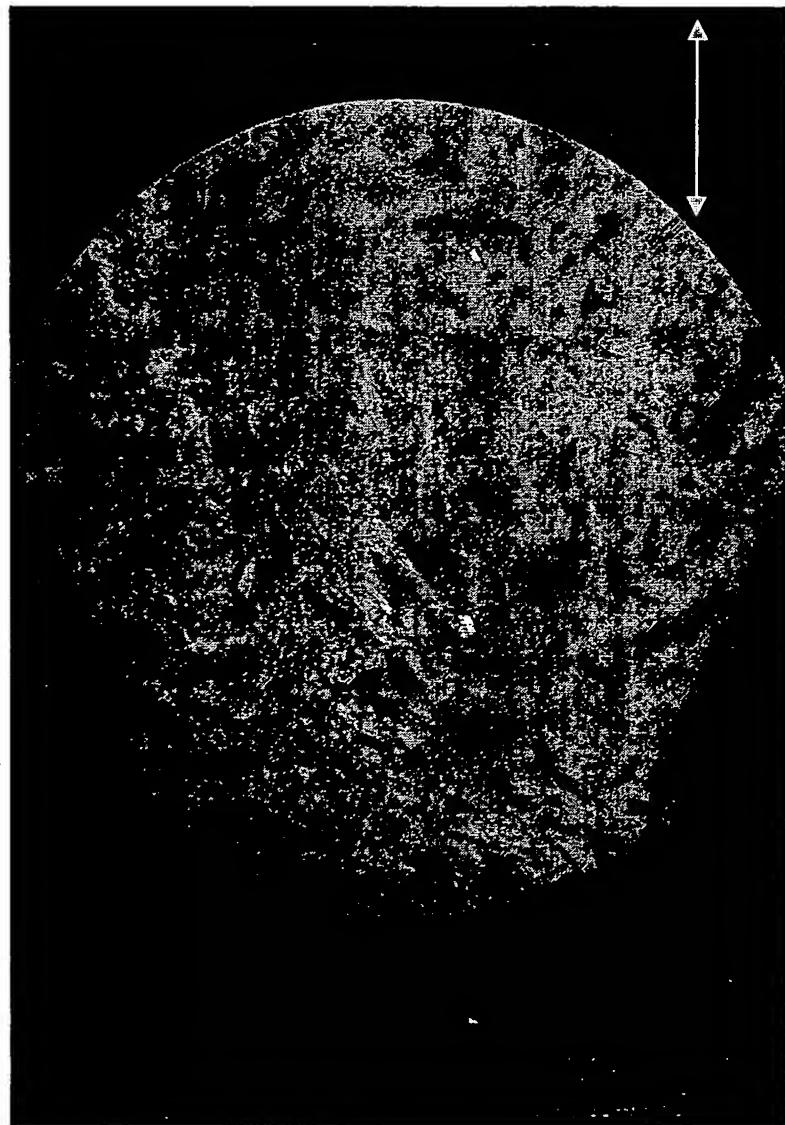


FIG. 14F

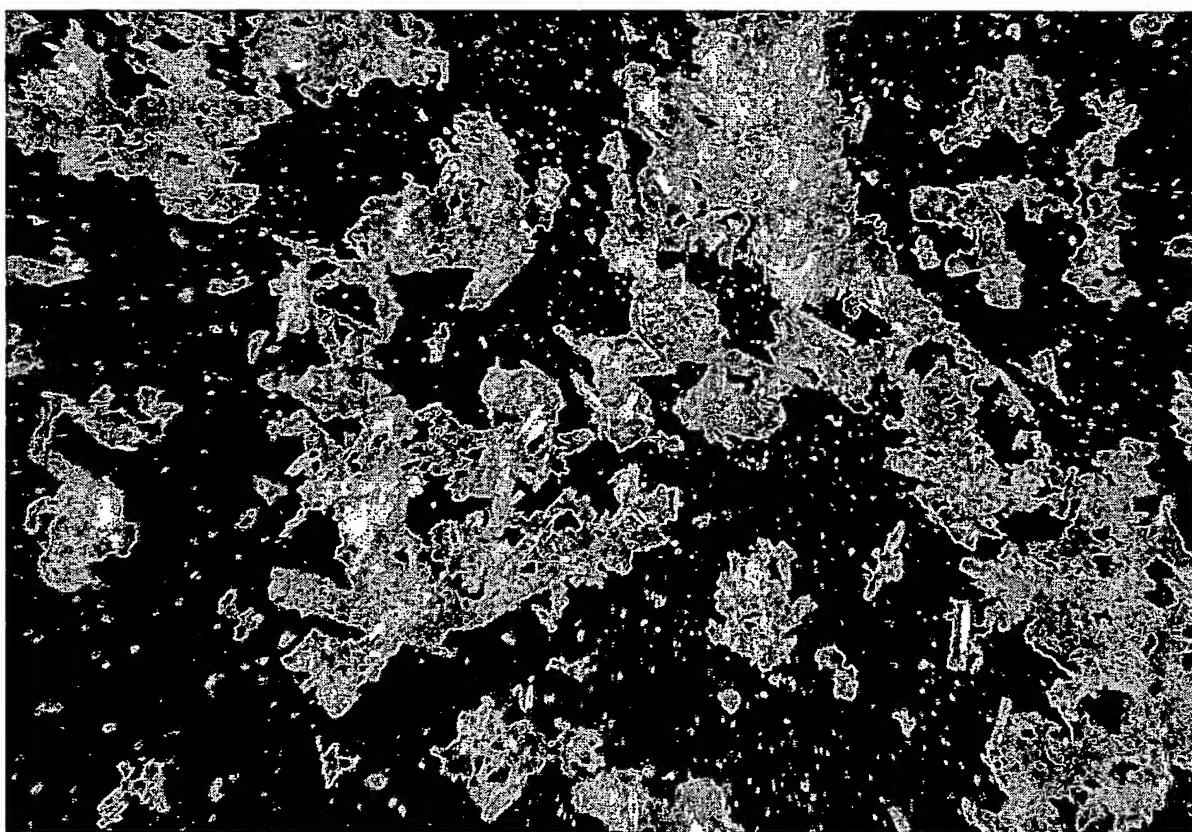


FIG. 14G

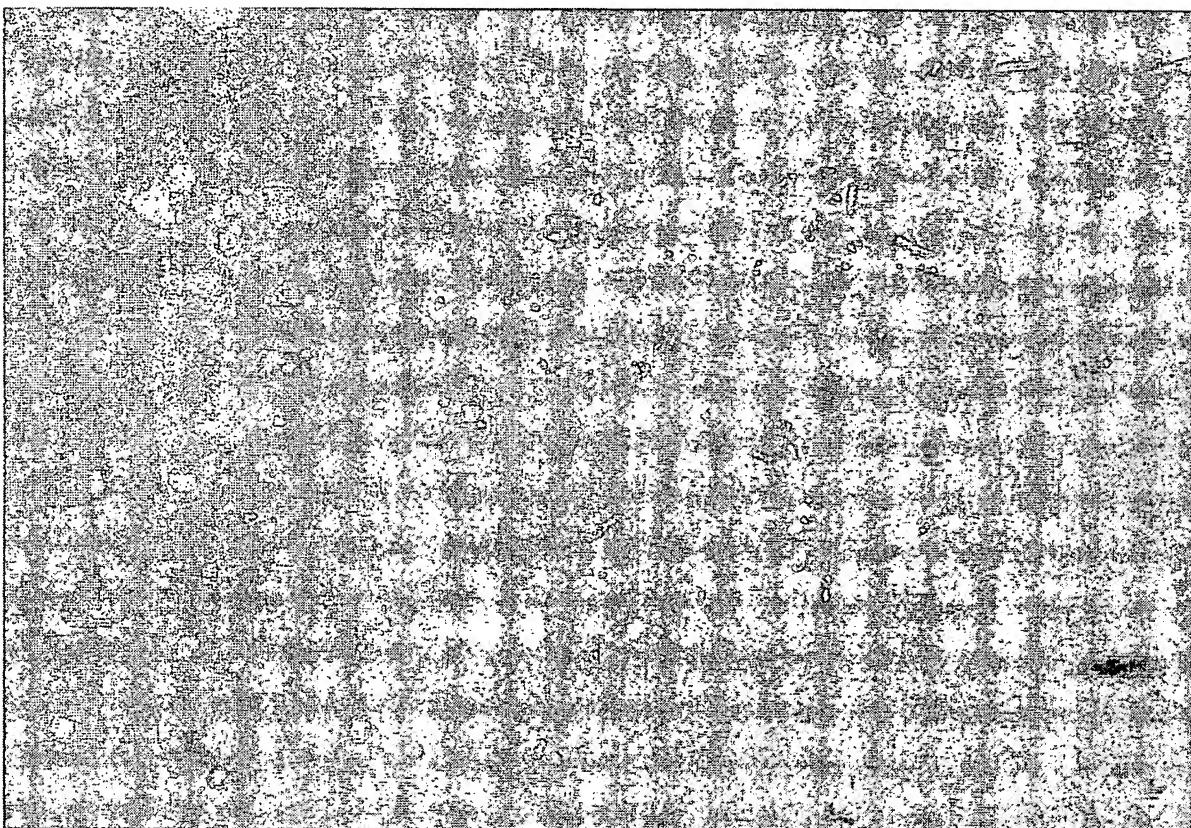


FIG. 14H

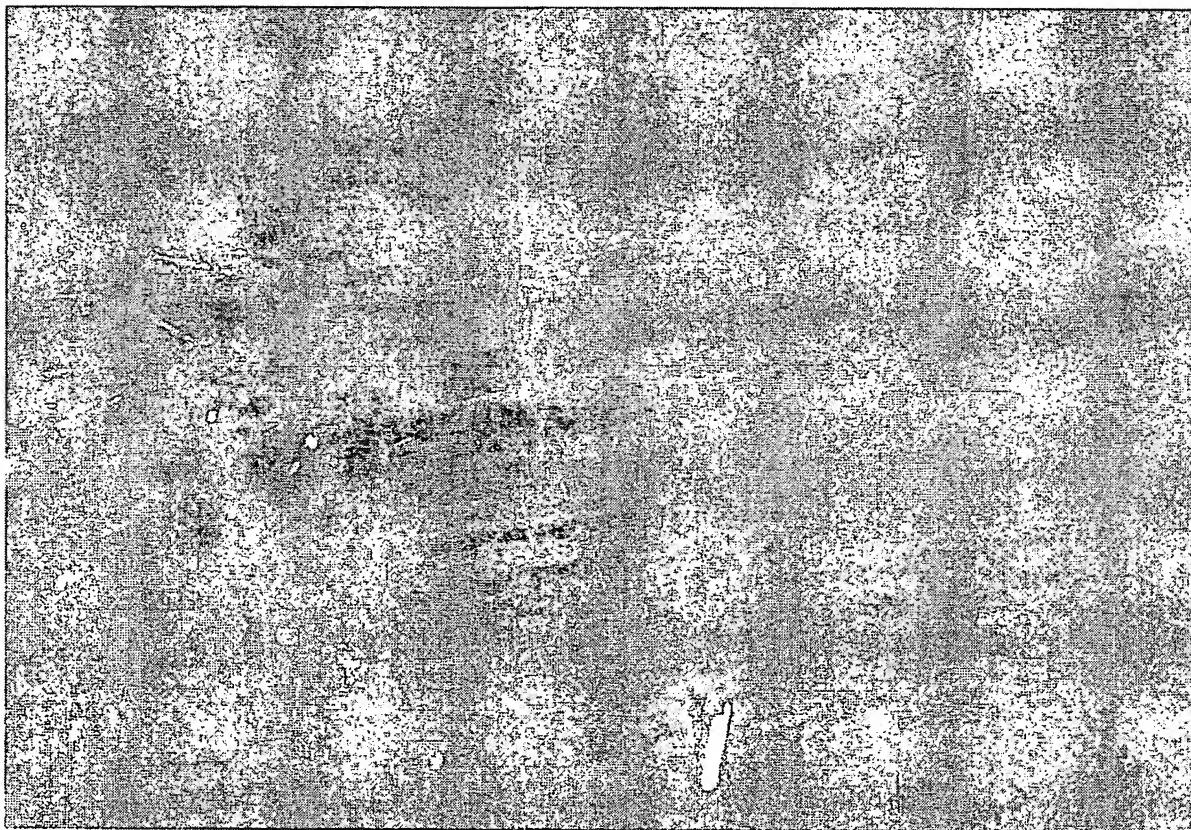


FIG. 14I

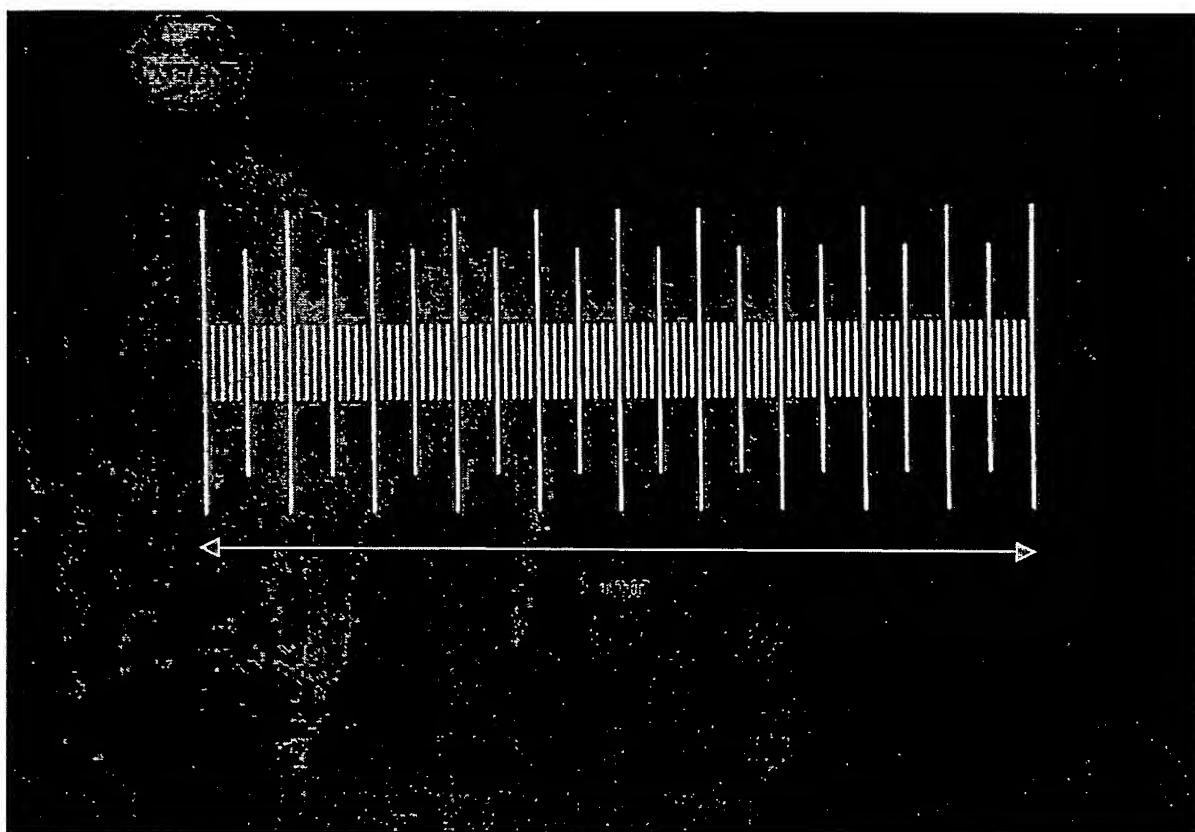


FIG. 15 Water Demand; Effects of H_2O 270°F 150 min

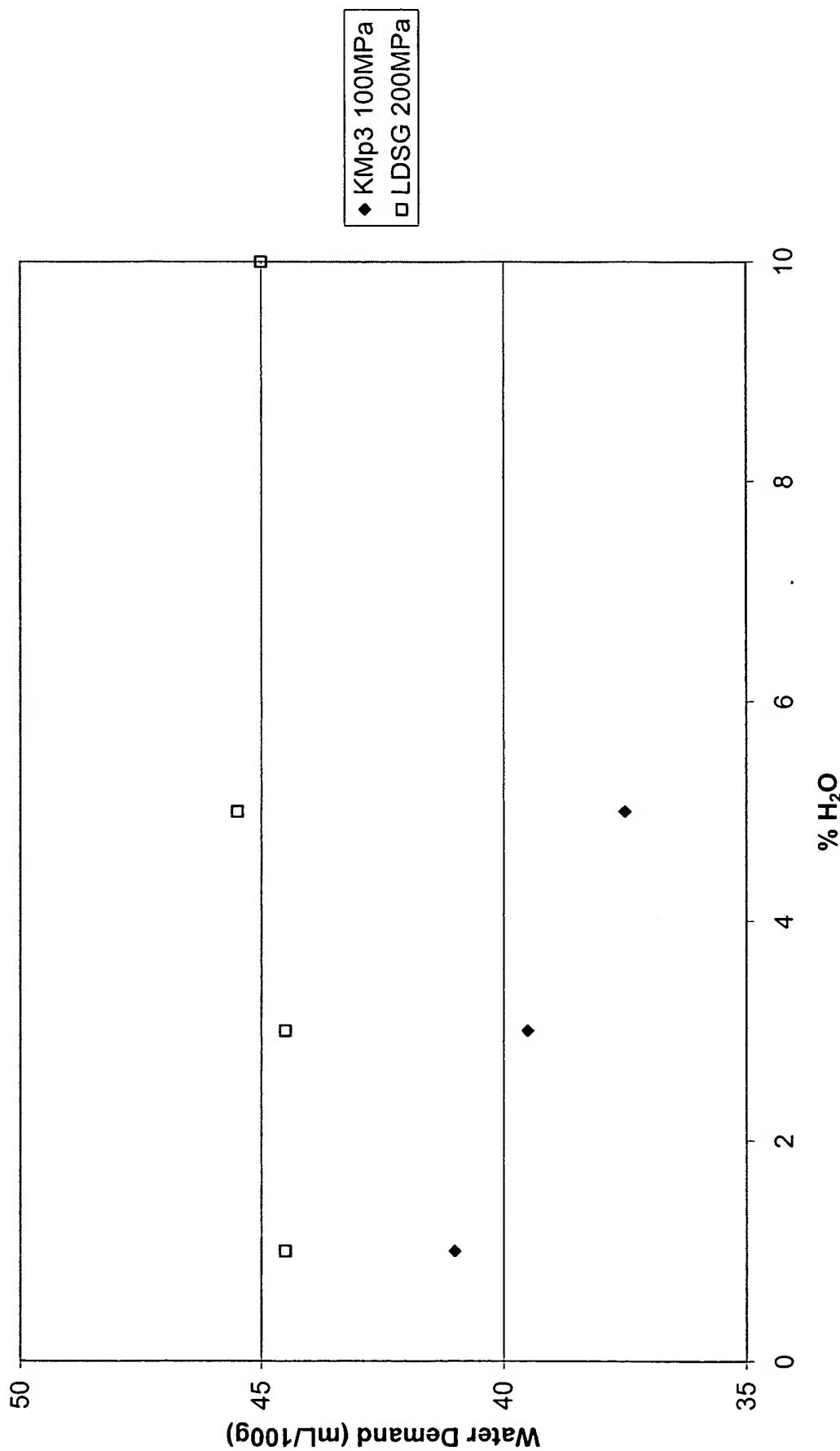


FIG. 16 Water Demand; Effects of Additives KMp3 3% H₂O 200 MPa
270°F 150 min

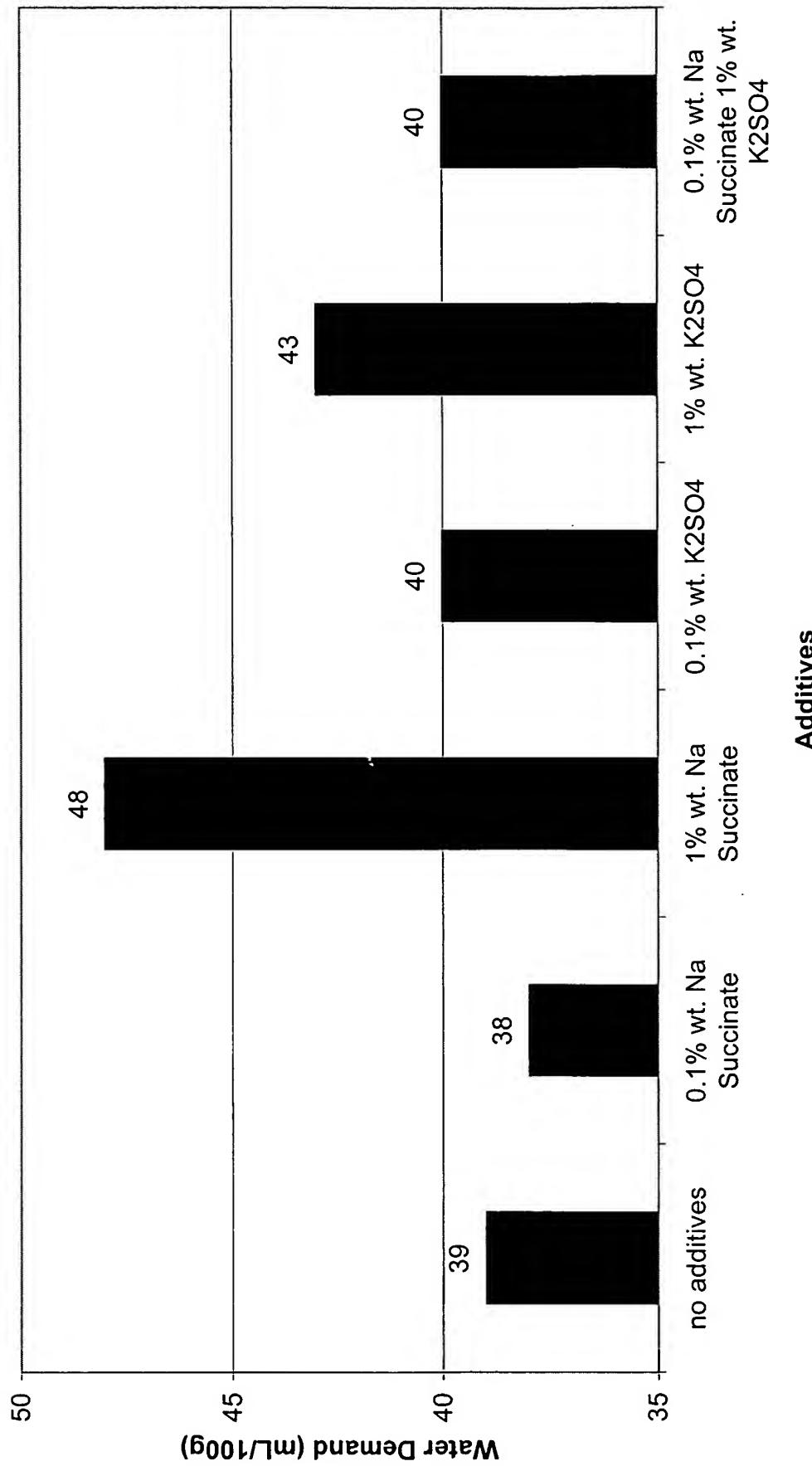


FIG. 17 Briquette Void Percentage; Calcined 150 min @ 270°C

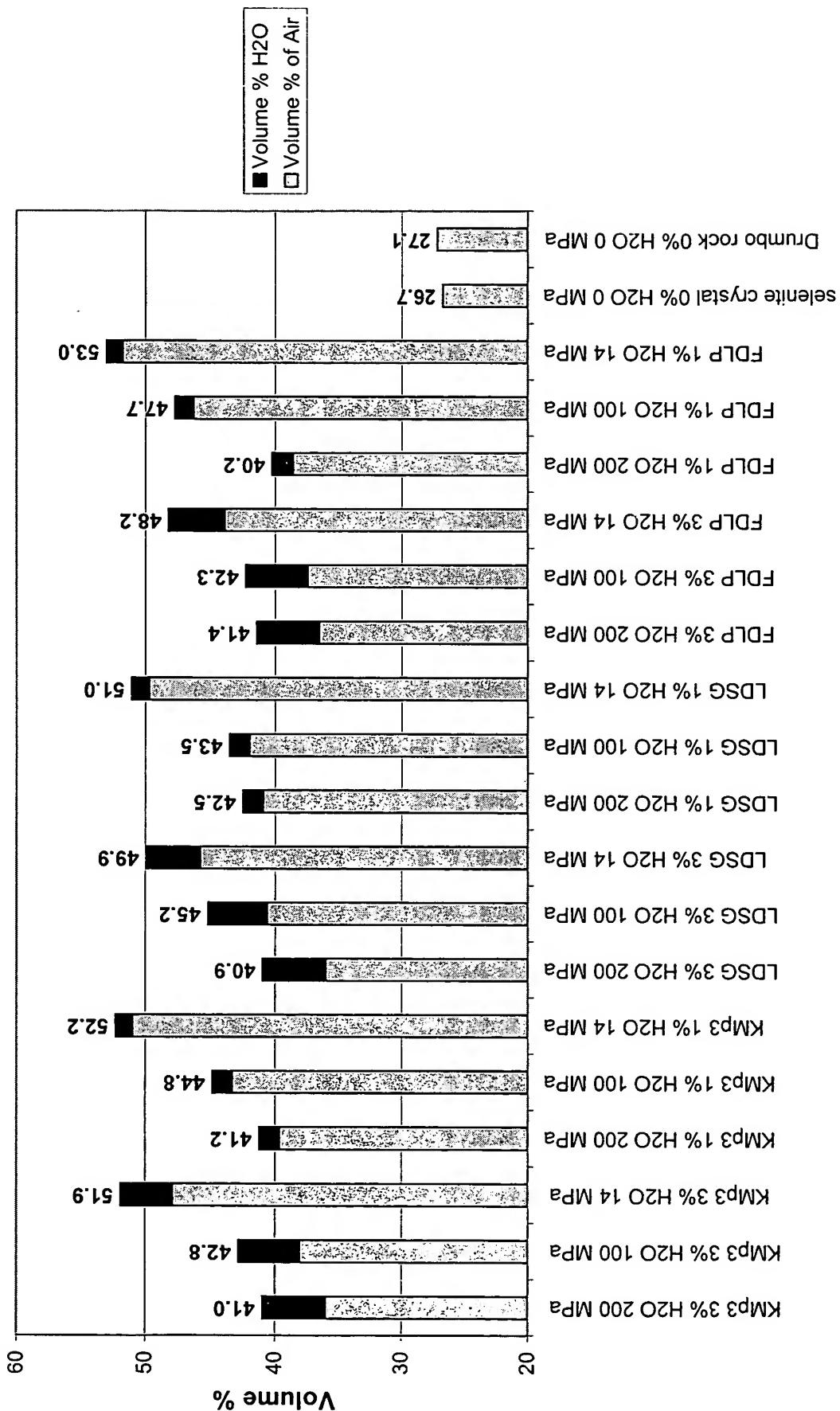


FIG. 18 Briquette Void Percentage; Uncalcined

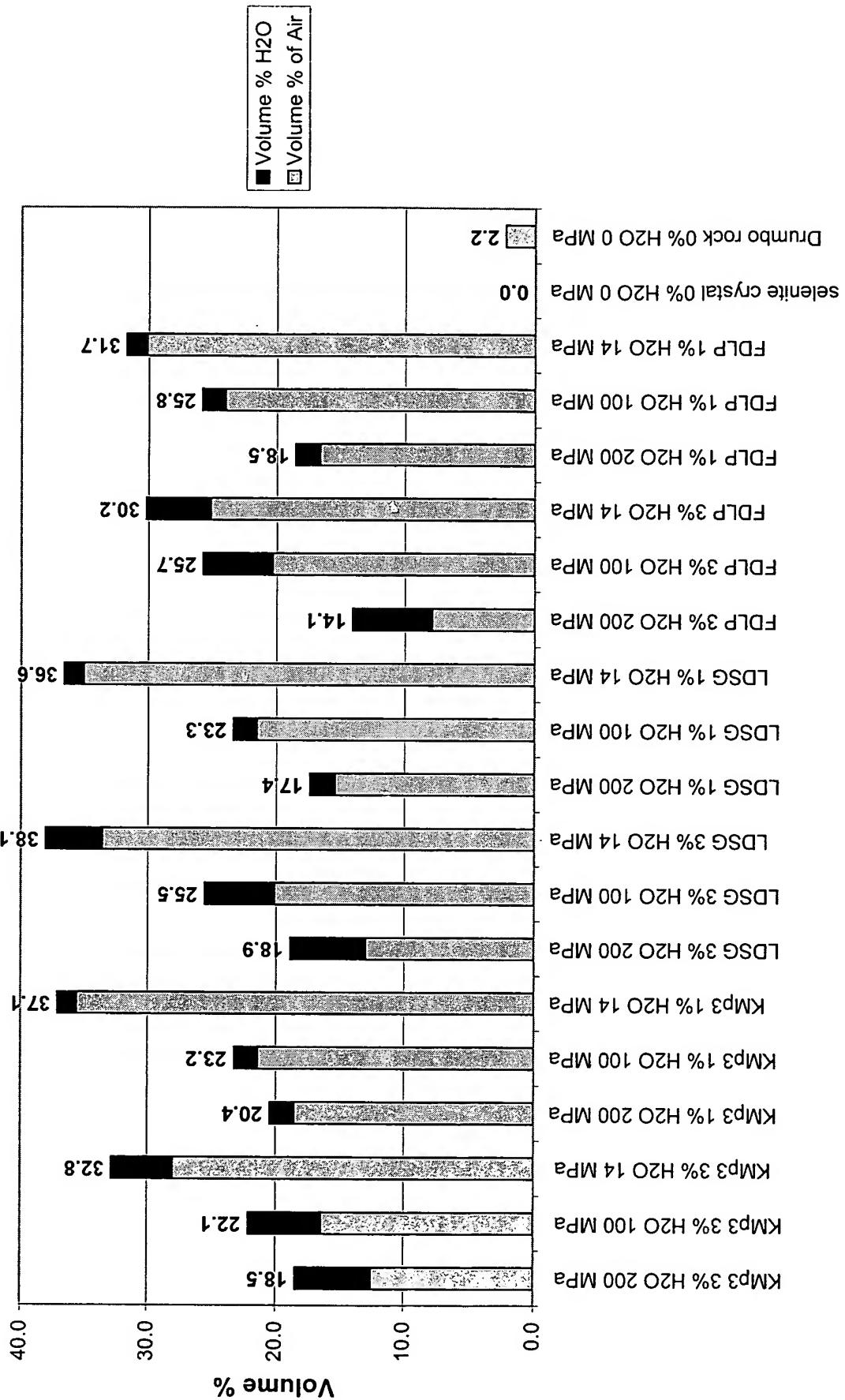


FIG. 19 Drying Rates of Large Briquettes; 104°F versus 194°F

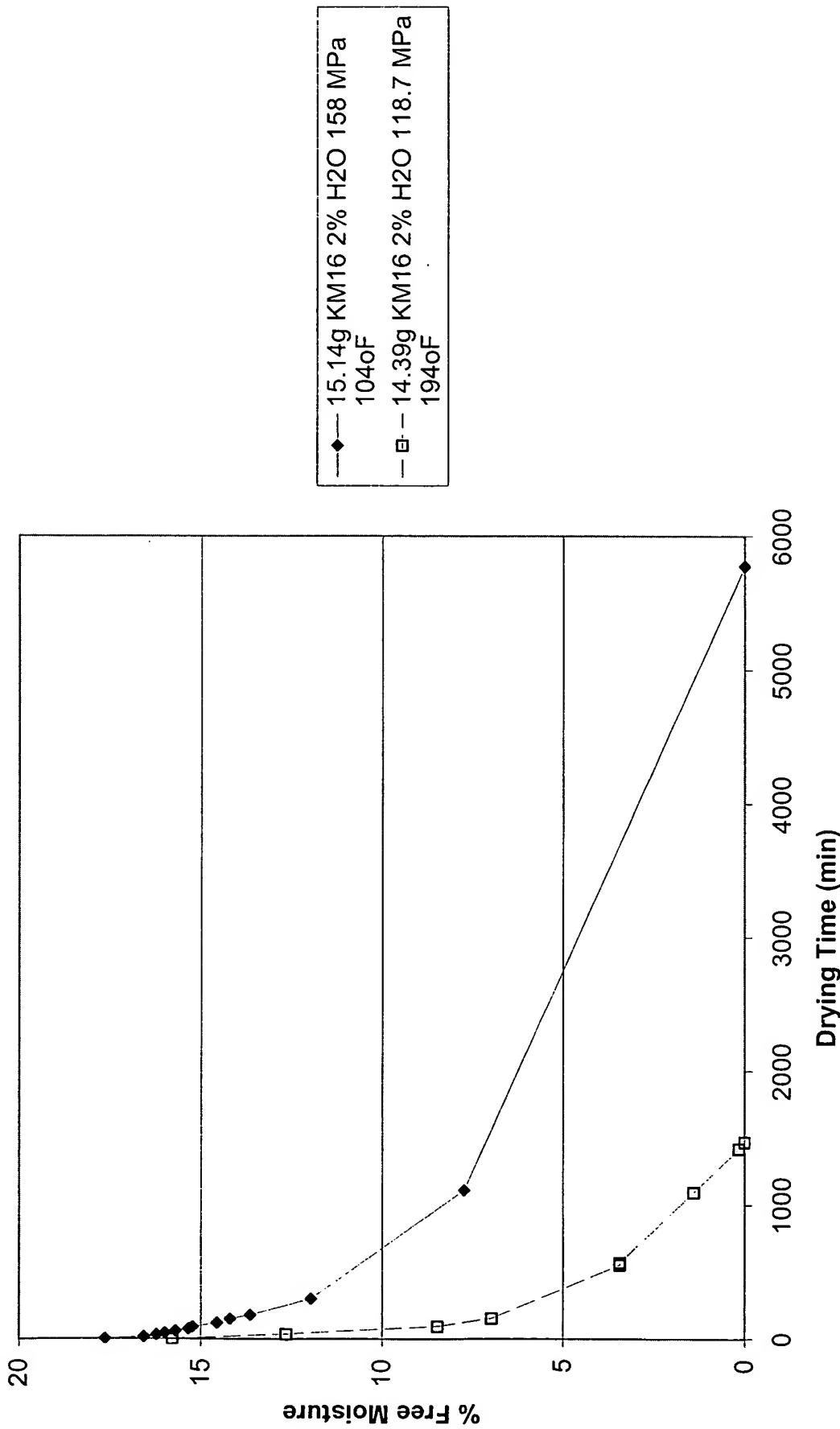


FIG. 20 Drying Rates at 194°F with Varying Drying/Crushing Methods;
18.64g KM16 5% H₂O 152 MPa

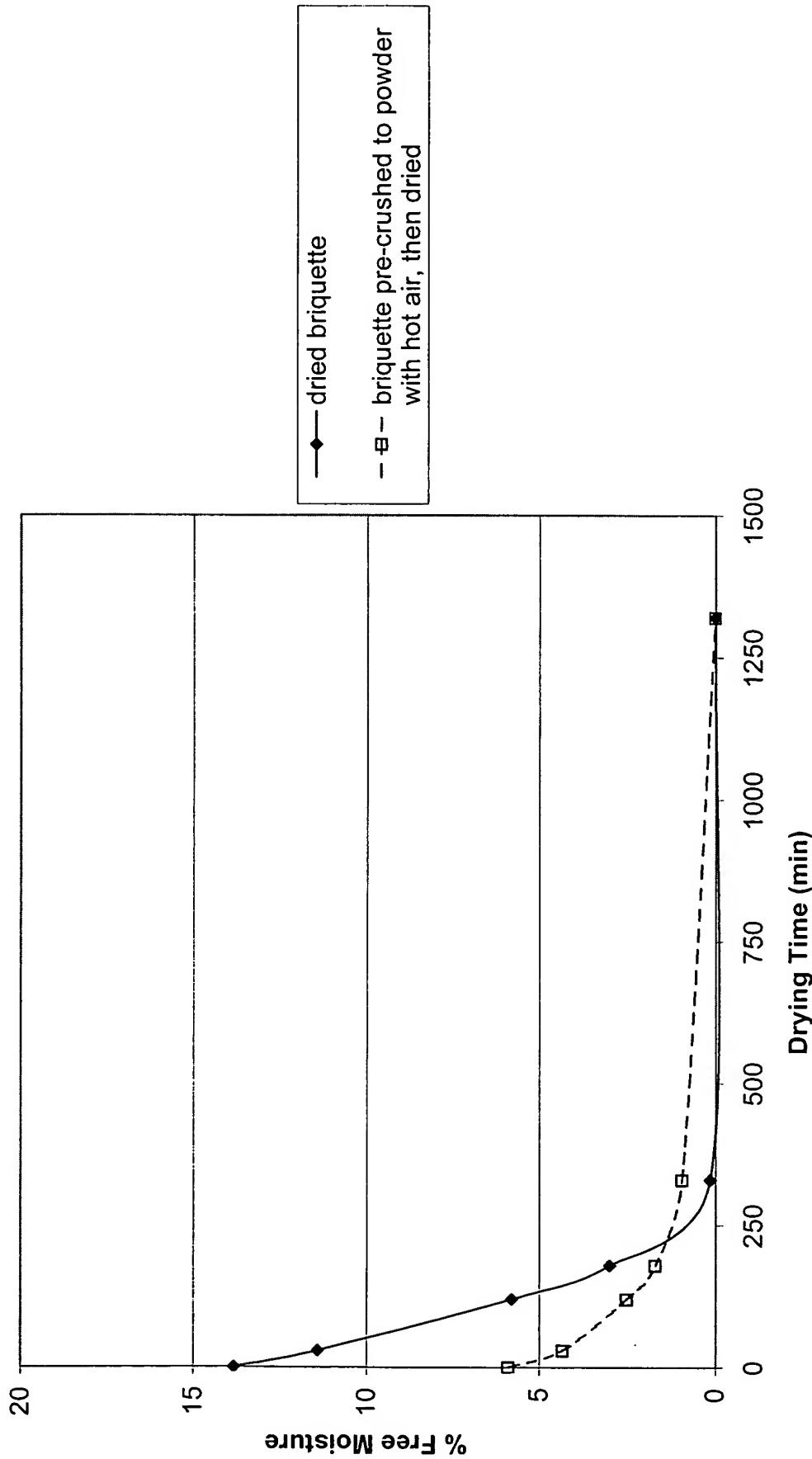
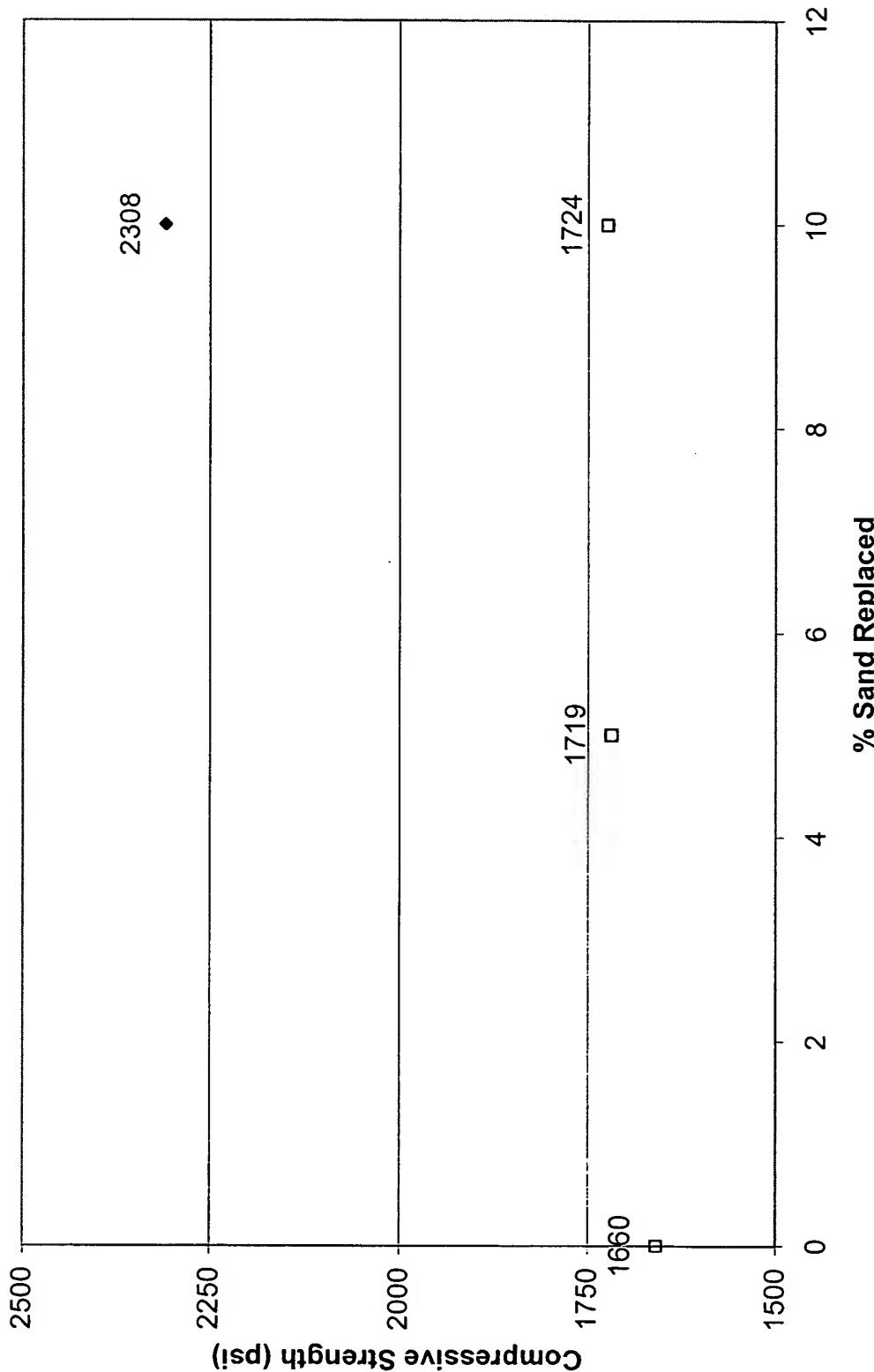
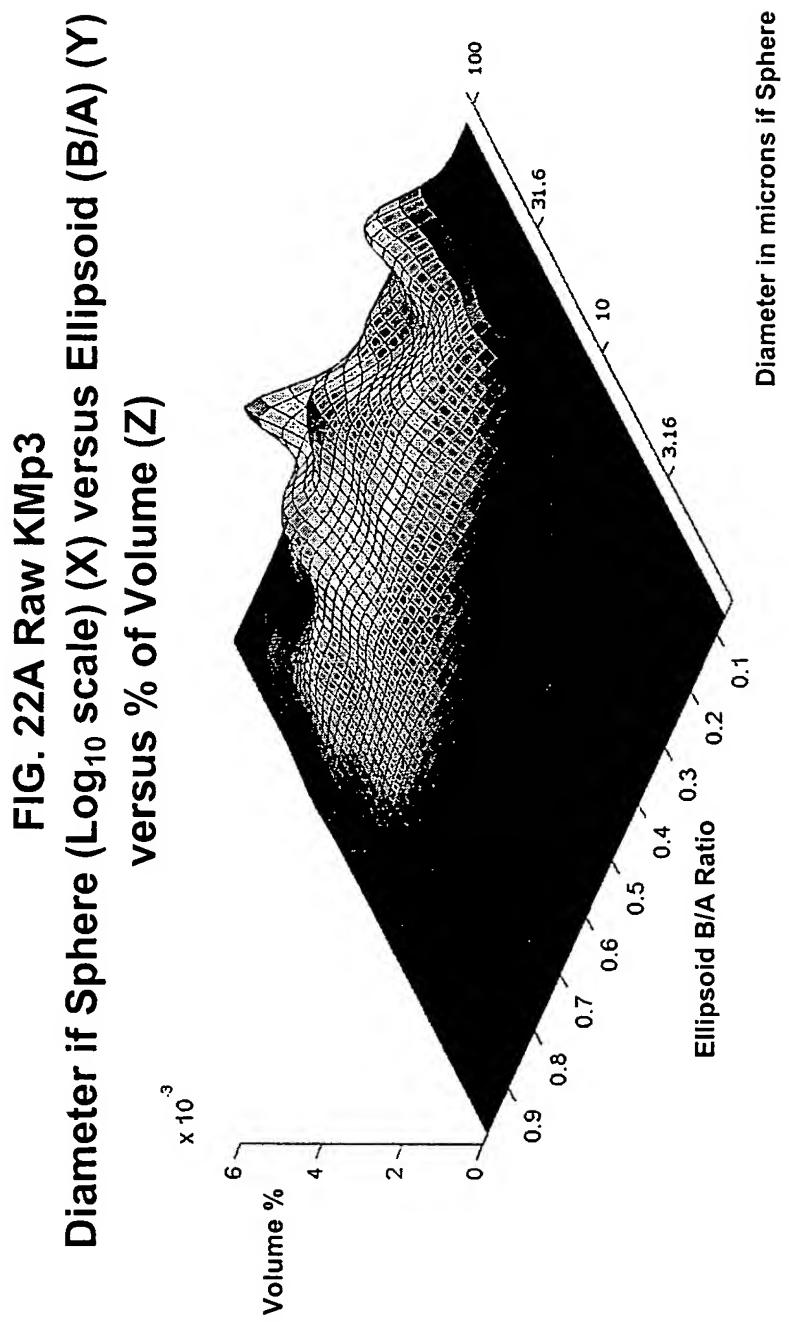
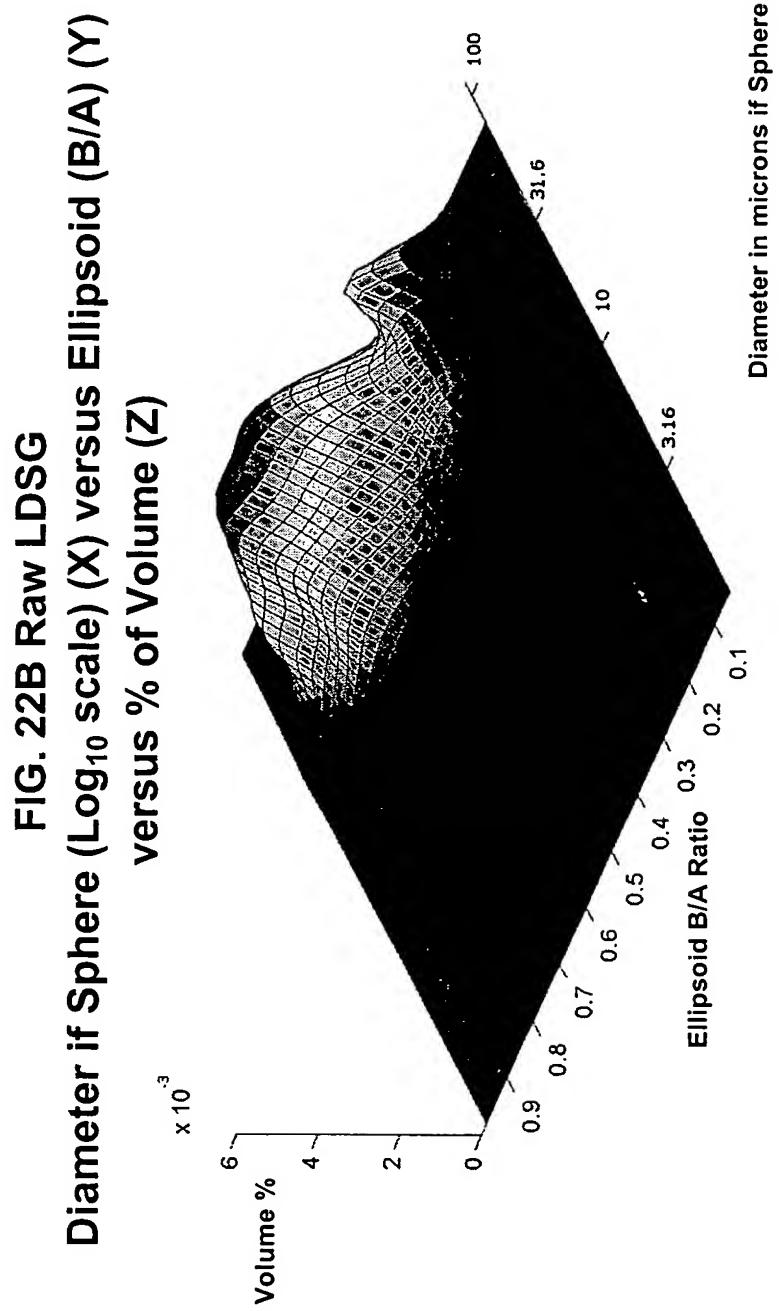
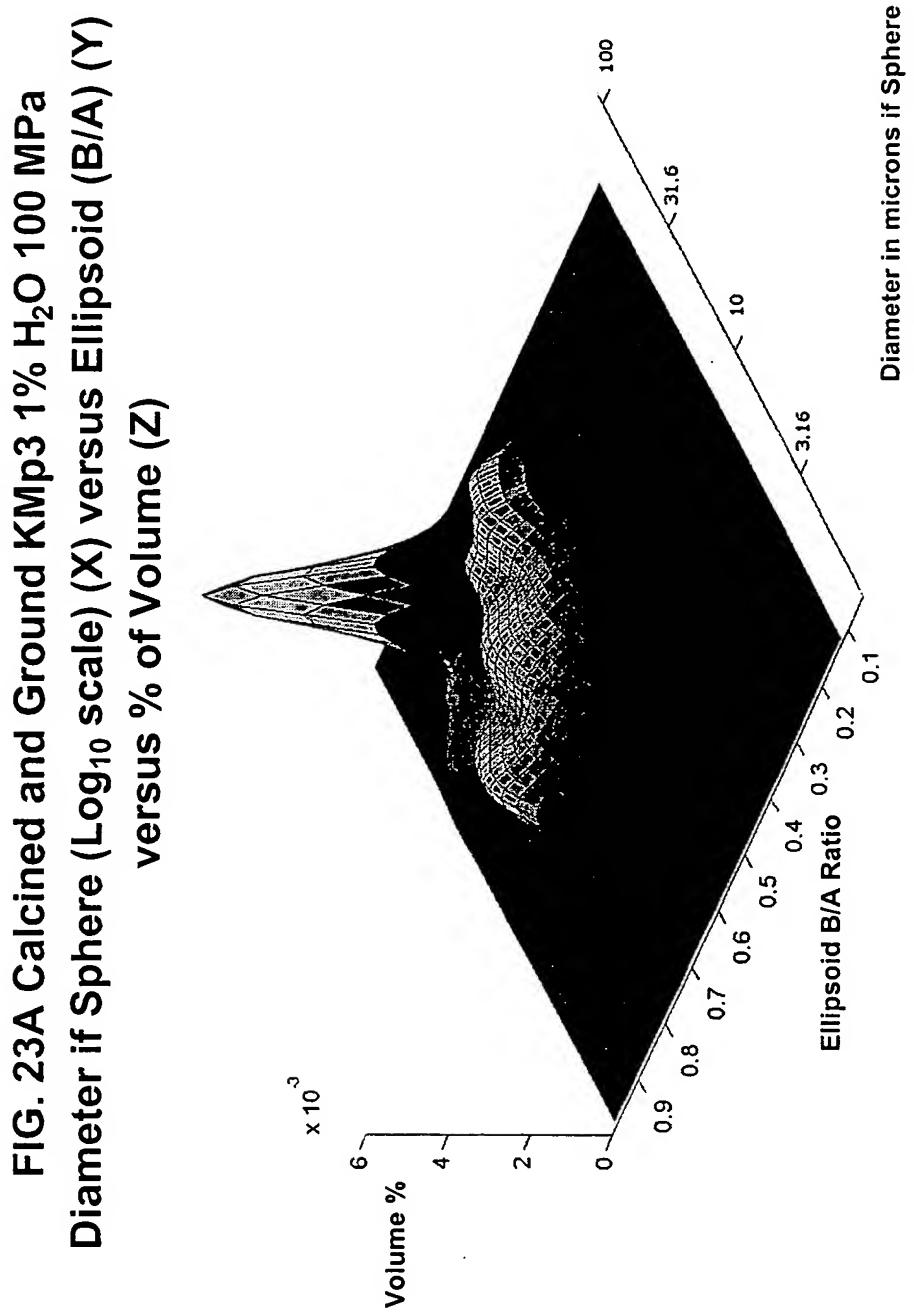


FIG. 21 Effect on Compressive Strength of Replacing Sand with Fly Ash









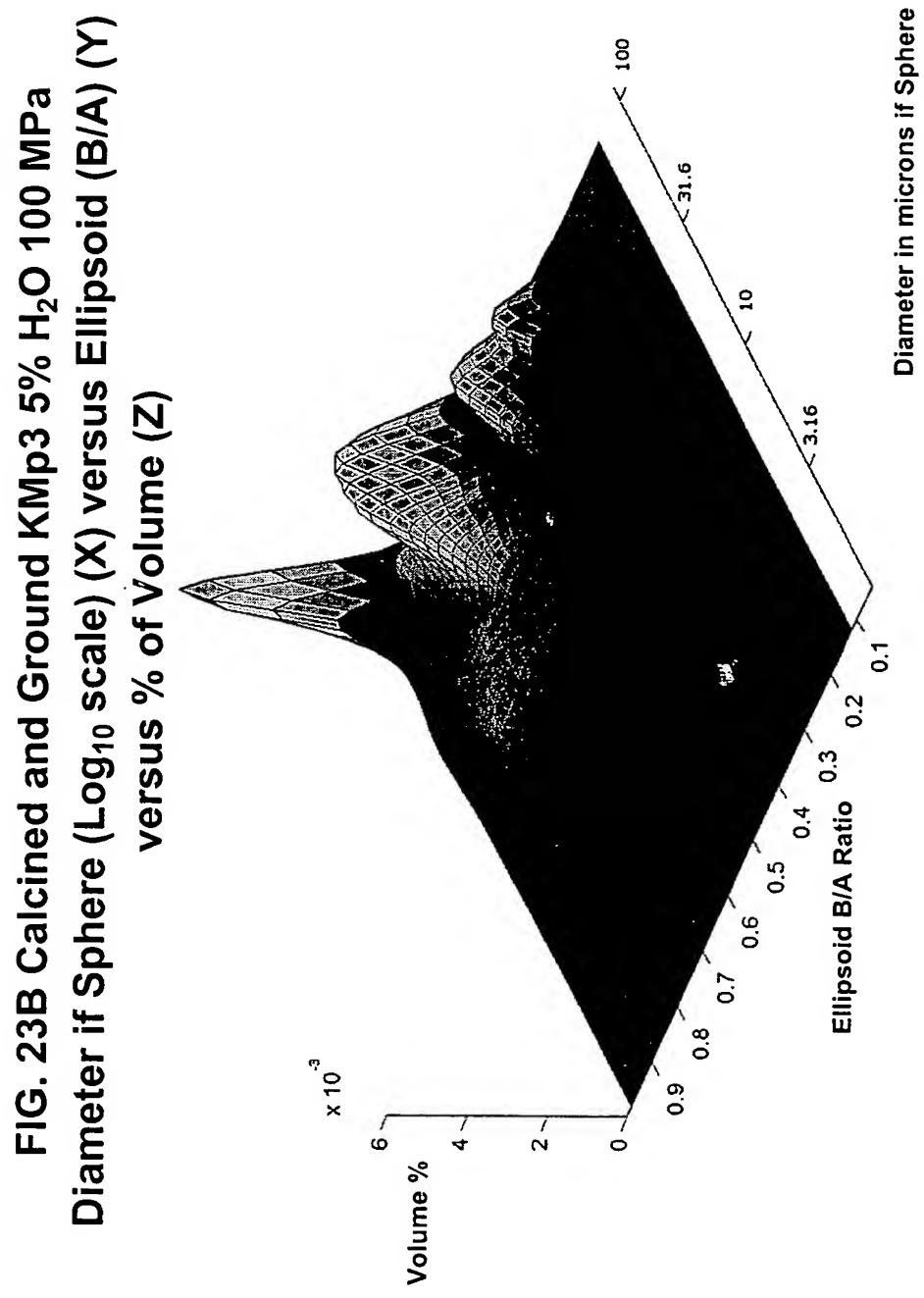


FIG. 23C Calcined and Ground LDSG 5% H₂O 100 MPa
Diameter of Sphere (Log₁₀ scale) (X) versus Ellipsoid (B/A) (Y)
versus % of Volume (Z)

